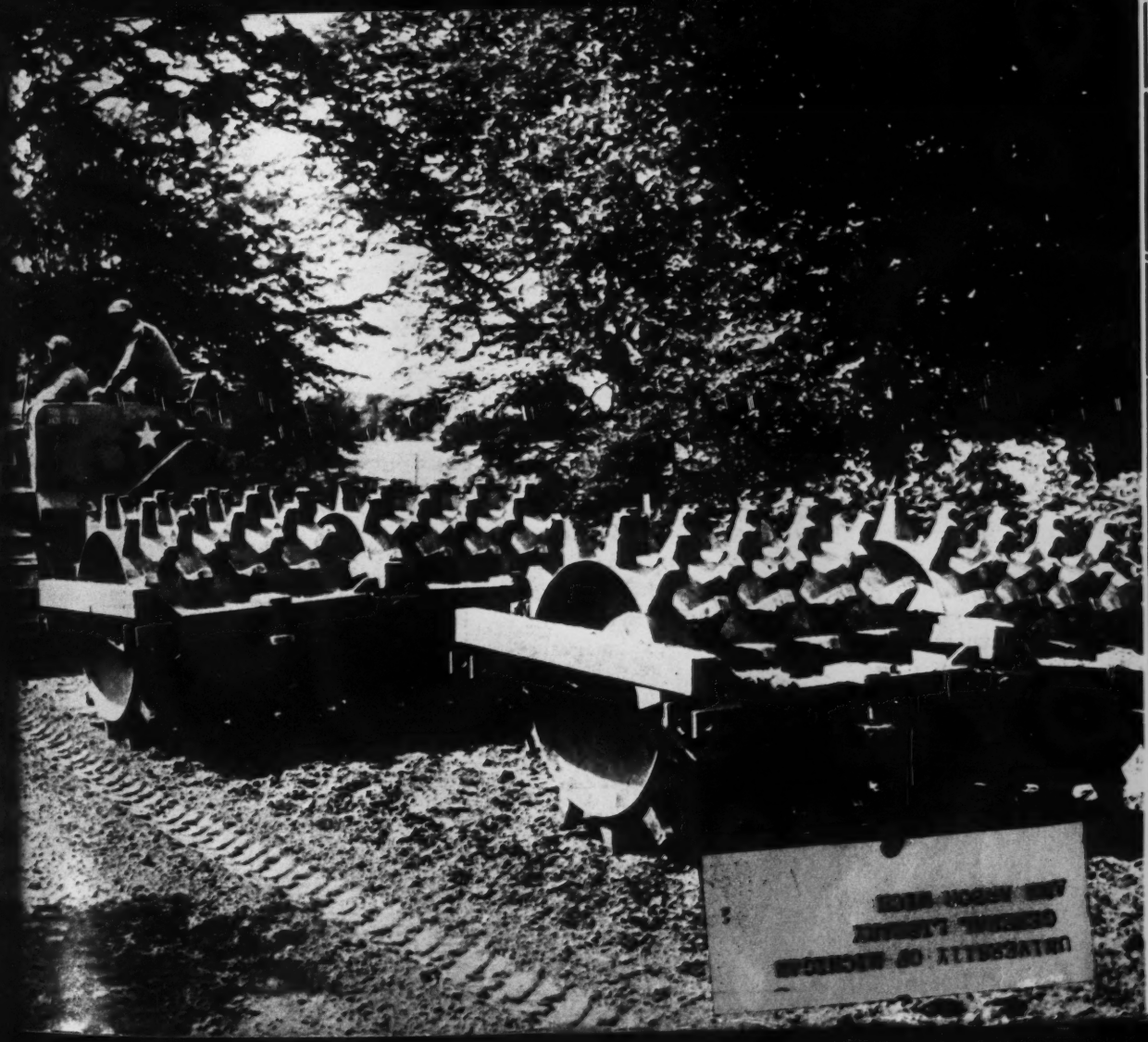
ENGINEERING NEWS-RECORD

rmy Engineers build a soil-cement road at one of our depots in an English forest.



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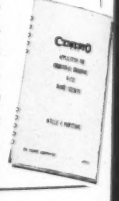
CEMESTO . . . is a fire and moisture resistant wall unit composed of a cane fibre insulation core with asbestos cement covering on both sides. It is a combined material making a rugged insulated wall section with complete exterior and interior surfaces. For complete information on Cemesto construction with wood framing, write for free portfolio of detailed drawings.



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The Week In Engineering and Construction

INEERING NEWS-RECORD • SEPTEMBER 30, 1943 • VOLUME 131 • NUMBER 14

sed construction equipment ought by both Army and Navy

ed is so great that a joint committee has been set up determine which service is in greater need of usable ces made available through Treasury redistribution

ors to the effect that the Army and have heavily overbought on con- on equipment and are hurriedly ing it at sacrificial prices in an to keep a leap ahead of anticipated ssional investigation appear to be ded. Both the Army and Navy m possession of any surplus con- on equipment. On the contrary, ilization Branch of the Treasury rement Division points out that y rather than surplus is the rule in branches. The competition for ent is said to be so keen that a tee of representatives from Army avy has been set up to determine is in greater need of usable pieces come available through Treasury ibution.

possible that the rumors were nlargements of reports concerning e by the Utilization Branch of the ry Procurement Division, of equip- which it inherited from such agen- the WPA, CCC and the National Administration. One report was n enormous stock of old wheel- s dumped in New York and sold branch at junk prices had been at much higher prices. Investiga- the Utilization Branch convinced that the wheelbarrows were good ing but junk, since they were old- with wooden handles, and were aked with concrete.

her complaint concerned compres- ich the branch said were sold in ith to a shipbuilder in the Great egion for his own use. The pur- it was later reported, resold at some profit. The Utilization pending outcome of its investiga- lds to the belief that if the pur- did resell, he did so after the ent had served his purposes in ction.

Utilization Branch of the Treasury ement Division was set up by ex- order some months ago to redis- tribute equipment from agencies abolished by congressional action, including the WPA, CCC, and NYA or from any government agency having surpluses. The latter may include, besides the military forces, such agencies as Federal Housing and Public Roads. Though the former is still undertaking additional programs, it is fair to assume that the day will come when it will have a surplus; whether that surplus will be fit for redistribution and use or only for junking remains to be seen. Indicative of the tightness in road construction equipment is the plan for pooling state and county-owned road equipment through WPB, which the majority of states have adopted.

Though the problem so far has been one of procurement rather than of disposal, there is at present the intermediary problem of utilization, which is resulting largely in shifting of equipment rather than in selling it. The purpose is not only to meet construction needs quickly but to save materials and manpower which would be needed to manufacture more equipment.

Despite existence of the Utilization Branch, each agency appears to be on its own so far as shifting of equipment within its own jurisdiction is concerned, and in some cases this independence applies also to sales.

War Department procedure

In case of the War Department, any construction equipment that becomes available is immediately shifted to other jobs where it is needed. Except in a few isolated cases, there has not been enough equipment becoming available to enable the Army to put any at the disposal of war-contract constructors who furnish their own equipment under terms of their contract, and who may need more.

In these isolated cases, the Army has sold direct to contractors, sales being made by the division offices and cleared through the office of the Redistribution and Salvage Branch of WPB which deals with redistribution of heavy construction and automotive equipment for the con-

General Motors Photo

Jack-knife hoist speeds plane loading

The jack-knife power hoist has been adapted to military trucks to enable lifting a truck body vertically to any desired height. Cargo can be put on the truck from a low platform and delivered to a plane door at any height.

struction division of the Corps of Engineers.

Some additional equipment has been rented to war contractors, and some disposed of to the Forest Service. The bulk of the equipment which the army can no longer use in this country, goes overseas for troop use.

At such time in the future as the Army may have usable equipment beyond its own needs, it expects to offer it to Lend-Lease or other government agencies. If no need for it is found within the government, it will then be turned over to the Treasury Procurement Division. If, after another canvass of government agencies, this division finds no need within the government, it will offer the equipment for sale to the public.

Equipment that is obsolete or not economically repairable from the standpoint of the government is sold through the Army division offices, sales being cleared through the Redistribution and Salvage Branch, as in the case of redistribution. At one time there was a rule requiring that equipment sold as junk must be broken up. That no longer is in effect. The Army now sells such equipment "as is." It succeeds in getting a substantial number of bids, and sells at what it considers good prices. It places no restrictions, however, on the buyer as to what he may or may not do with it.

However, when such equipment is sold as scrap, the purchaser must certify that it will be treated only as scrap.

The Navy's plan

When the Navy has construction equipment not in use, such equipment is immediately assigned to concentration points or warehouses. It is then "surveyed" by a board of officers. If the board finds the equipment would be usable if repaired, the items are assigned to a repair base, and placed in the best of condition. Equipment usable, either with or without repair, is first made available for use abroad; if it is not needed there, it is made available to the Navy's bases in this country which have been unable to obtain equipment because of the heavy demand; and finally if no immediate need is found, it is offered to a fixed-price construction contractor who is in a position to use additional equipment on Navy work, and who, in payment, deducts the purchase price from his contract price.

Equipment may be found to be of no further use to the Navy either because it is worn out or is obsolete. In the case of construction equipment, practically all that is thus "surveyed for scrap" is so designated because it is worn out. All good parts are salvaged for use by the Navy in other machinery or equipment, and the remainder is broken up and sold as scrap, by the Navy, at auction to the highest bidder.

In addition to these various setups, the Redistribution Division of WPB has worked out an elaborate system of redistribution of idle machinery and equipment not handled by other divisions. Since government-owned construction equipment is handled by the agencies possessing it, and that owned by contractors is handled through the Construction Machinery Division of WPB (ENR Sept. 16, p 426), the WPB Redistribution Division is saved the necessity of redistributing this type of equipment. WPB has the right to say whether the Treasury Procurement Division shall sell or hold for possible future government needs.

Navy wants officers for the Seabees

The Navy has reopened enlistments for men up to 50 years of age who can qualify as officers for duty in its Civil Engineer Corps. Successful candidates will be commissioned and assigned to duties with the Construction Battalions in connection with advanced base construction outside the continental limits of the United States.

It is pointed out that applicants under 35 years of age must have a technical degree from an engineering institution of recognized standing in specialty in civil engineering.

Applicants over 35 years of who do not have a degree, may qu on the basis of 10 to 15 years experience in the field of civil neering, evidenced by having had sponsible charge of work and a re nized standing in the profession. plication should be made to the n est Office of Naval Officer Pro ment. Offices are in principal cit

• • •

Alaska Army engineers awarded Legion of Merit

Col. George J. Nold, staff engineer for the Alaska Defense Command, and Maj. Francis J. Loomis, Corps of Engineers, have been awarded the Legion of Merit "by direction of the President of the United States" and "by order of the Secretary of War" for "exceptionally meritorious conduct in the performance of outstanding duty," Lieut. Gen. Simon Bolivar Buckner, Jr., head of the ADC, announced Sept. 13. The two engineer officers received the honor for construction performance in building Alaska defense projects.

Col. Nold commanded an engineer unit which completed Annette Island landing field, near Ketchikan, in muskeg 6 to 18 ft. deep. He used his own troops, CCC contingents, civilian employe the United States and native labor ing these units into an efficient team. The project was started in 1940, as the first of a long series bases in Alaska.

Maj. Loomis, as a captain, w dent engineer at the Yakutat A during its construction. His cita ports that his leadership, initiati ability enabled him to overcom mendous difficulties involving sh of personnel, equipment and su delays in shipping, and unfa weather conditions. His home is coma, Wash.

• • •

Army Engineers build new road to Burma

Last week army censors in Ind mitted correspondents to reveal tha Army Engineers have for more t months been building a supply from India into Burma, as a part plan to attack the Japs from the Guarded from Japanese snipers by ese troops, the Engineers, using and Chinese labor, have hacked th through difficult jungle-choked ter the foothills of the Himalayas. as the Ledo Road, the route ma resound with the noise of Allied equipment moving into northern and once the Japs are dislodged nection will be made with the Burma Road so that China can plied by land as well as by air. eral, the American road runs along the southern slopes of the tains in India until it reaches the boundary when it turns southeast the upper Chindwia River area. John Arrowsmith is in charge work, and Major Robert Hirshfeld executive officer.

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ge scale postwar plan proposed Detroit by civic design group

e development of highways, residential districts, business and al centers, and suburban projects is being studied

d to be one of the most all- programs to date for postwar ning is the newly formulated the future development of De- h. Broad plans for the develop- highways, residential districts, and cultural centers, and sub- jects will be studied by a civic roup comprising 40 architects neers under the chairmanship of V. Gamber. The several projects for study will be analyzed dur- oming months and presented for nsideration by means of exhibi- tures and meetings, and through tions in local and national publi-

r is a member of the City Plan ion, which is cooperating in the by furnishing such data, facts ial as are available. It is re- at this program has been under- a voluntary civic contribution rticipating architects, consisting ers of the American Institute of s and the Michigan Society of s, in an effort to awaken public o the value of preparing basic eeding the design of individual development projects. The objectives of the planning group are to study broad plans for specific locations in the metropolitan area of Detroit for the purpose of illustrating some of the possibilities of the area's redevelopment on a large scale.

While the present need for well-planned, large-scale development is especially great because of the extensive building activity that is expected immediately after the war, the group's program goes beyond mere postwar reconstruction proposals and envisages the demonstration of principles that may influence Detroit's growth for decades.

Eliel Saarinen, internationally-known architect and authority on city planning, has accepted an invitation to act as the general consultant for the group. Other members of the executive committee are: Buford L. Pickens, Suren Pilafian, Arthur K. Hyde and Amedeo Leone. Meetings of the planning group recently have been held in Detroit at which the area to be studied by each member, or team of members of the group, was determined tentatively and plans discussed for proceeding according to a detailed outline submitted by the executive committee.

All work done by members of the planning group will remain the property of the respective authors, but in participating in the program, each author agrees to permit making such use of his work as is consistent with the purposes of the program.

The cost of each set of studies and presentations will be borne by the member, or members, assigned to that problem.

Expenses involved in exhibitions, publicity, publications, and all other items involving the work of the group as a whole will be borne jointly by the Detroit chapter of the A.I.A. and the Michigan Society of Architects, Detroit division.

Redevelopment projects being studied by the planning group are shown numbered on the accompanying map of metropolitan Detroit. The numbered projects and the members assigned to study and analyze each are:

1. Foot of Woodward Avenue, including transportation, terminals for buses, taxis, boats and railroad lines, parking spaces, riverfront drive, and the like; by George D. Mason and Co.

2. Same location as No. 1, but with an alternate scheme; by Giffels & Vallet, Inc., and L. Rossetti.

3. Downtown business area; by Charles E. Bates.

4. Studies for a convention hall and auxiliary structures; by Joseph Jogerst and Walter A. Bernardi.

5. Woodward Avenue and immediately adjacent areas between Grand Circus Park and Grand Boulevard; by J. Ivan Dise.

6. Comprehensive residential community; by George F. Diehl, Frank H. Wright and Talmadge C. Hughes.

7. Comprehensive analysis of inner boulevard area; by Joseph Leinweber, Edgar D. Giberson and Earl Pellerin, assisted by George N. Paully, George Hellmuth, Grant Mounteer, Alex Gow and Isben Pivatelli.

8. Cultural center; by Suren Pilafian, Buford L. Pickens, Amadeo Leone and George L. W. Schulz.

9. Comprehensive residential community; by John Skart, assisted by Stuart S. Kissinger.

10. Public boat and yacht harbor; by Brender & Van Reyendam.

11. Public boat and yacht harbor; by Giffels & Vallet, Inc. and L. Rossetti.

12. Community shopping center; by Derrick & Gamber

13. Comprehensive residential community; by Winn & Brezner.

14. Comprehensive residential community; by Eberle M. Smith, Jonathan A. Taylor and Louis G. Redstone.

15. Redevelopment of Oak Park; by George J. Bery.

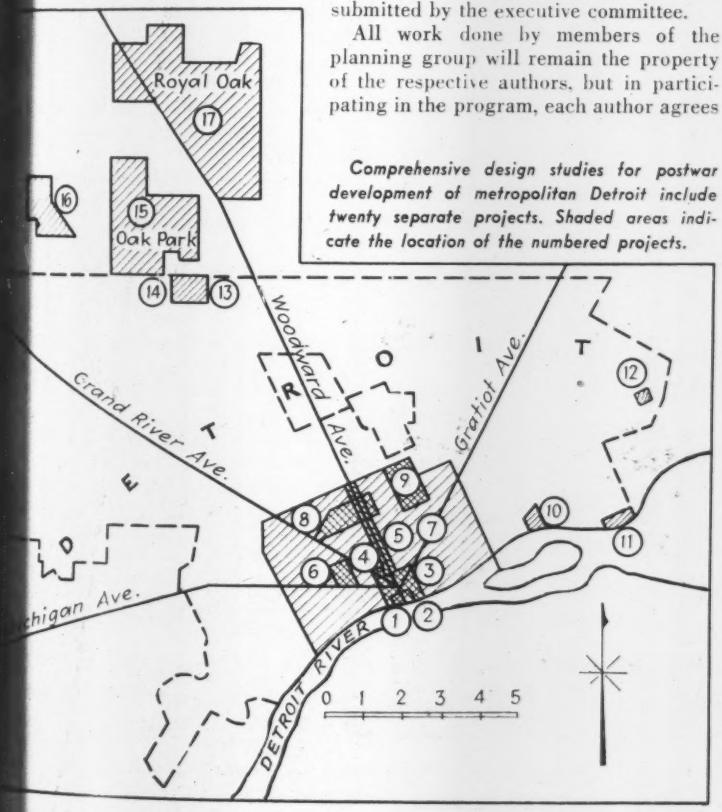
16. Comprehensive residential community; by Milton W. Pettibone, assisted by Thomas Schocken.

17. Redevelopment of Royal Oak; by Clair W. Ditchy.

18. Cadillac Square; by Giffels & Vallet, Inc. and L. Rossetti.

19. Typical treatments of express highways and adjoining areas; by N. Chester Sorenson, Harvey Hoffmaster and H. Sanborn Brown.

20. Riverfront development; by William Edward Kapp.



Comprehensive design studies for postwar development of metropolitan Detroit include twenty separate projects. Shaded areas indicate the location of the numbered projects.

ENGINEERING ABROAD AS SEEN BY ENR EDITORS

Britain to Basra and Beyond

Waldo G. Bowman
Editor, Engineering News-Record
(By airmail from the Persian Gulf Service Command)

TEHRAN, IRAN—This is the end of the line as far as I am concerned, and thus a good spot from which to look back over the war-construction front that has been fashioned to support the attack on Hitler's Europe. Nearly three months of travel along this front, which extends in a great curve of 6,500 miles from Iceland to Iran, is behind me, with the prospect soon of retracing the route at a somewhat faster pace. In the meantime, while I loaf in this modern capital city of Persia, watching American trains and trucks laden with American supplies for Russia roll by, and incidentally feeling much better since the bugs that cause Middle East measles (more accurately known as "jippy tummy" in these parts) moved on, there is opportunity to record some of the things that have not yet found their way into these dispatches. At the very least, it will clear the decks for the real story from this sector, namely the construction and transportation achievements of a great Engineer outfit, the Persian Gulf Service Command. The title, which I scribbled in my notebook several days ago, will be "Beating A Path to Russia's Back Door." Now, all I have to do is write the story. But first, these travel notes.

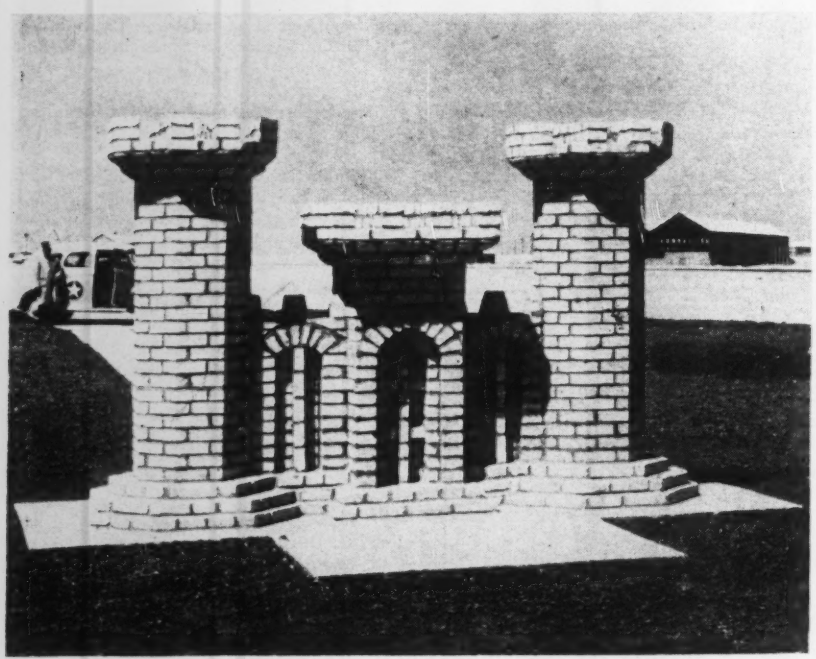
In thinking back over a series of travel experiences, the mind often works in a pattern of contrasts and comparisons. Thus the flight up here over the weird, wild and arid mountains of northern Iran serves to recall other flights—from England to Ireland, when a super-duper air bump piled fifteen startled soldi a frightened war correspondent jumbled mass on the floor; from to Africa, when you played blackj til dark and then tried to sleep up on an aluminum bench that co all of your body heat into the sphere; or from Algiers to Cairo, convoys of empty troopships re from Sicily painted white st in the blue waters of the Mediterr

Or, again, the Army billet in this is being written recalls the h our camps in Britain, which are masonry and thus much more subs than camp buildings in the United S But whereas the British huts are assembled from modern prefab units, these Persian counterparts soft burned brick laid in the mud of antiquity. Furthermore, the roof ing is of round poles, and the cove mud instead of to cement-asbestos

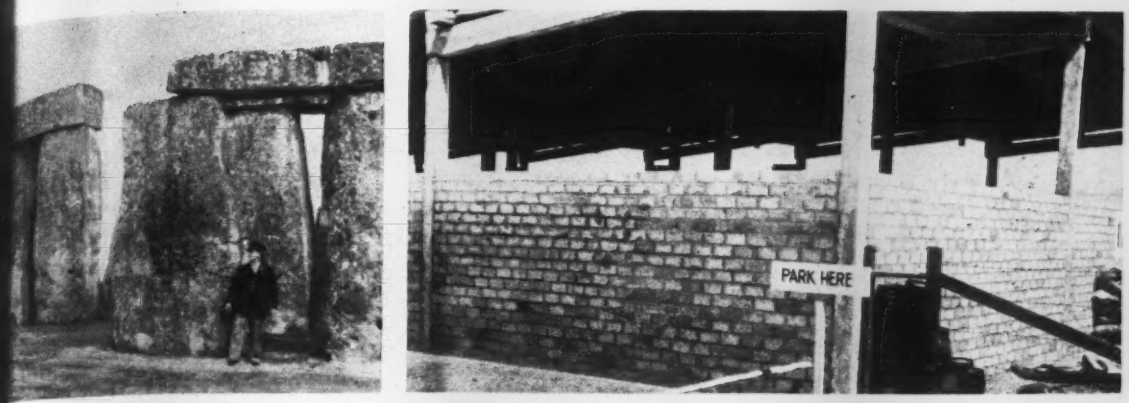
Still other comparisons are cal mind by the airbase runways. North Africa and here in Iran, asphalt surfaces are the rule, the M East having plenty of oil, whereas in land concrete paving is dominant, being the plentiful material and t to bring in asphalt being otherwis ployed. Likewise, while both oil cement have been used for stabiliza surfaces in the Middle East, onl cement stabilization had been tri to recently in England.

Tehran, itself, provides a contrast other Persian cities farther south desert plain, not only by virtue location on a mountain plateau rounded by towering peaks, but be a large section of it is of modern struction, a result of bold plann the Shah.

Two characteristics of this new one rather good and one interesti bad, would be noted by any engine visitor. The first feature is the of vacant lots behind brick walls or even false building fronts



Symbolic of American construction achievements overseas is this Corps of Engineers castle which occupies a place of honor at one of our large installations in Egypt.



e "Stonehenge", England's famous Druid ruins at the left lending its name to the Middle East construction at the right, terized by bents of precast concrete columns and beams. The officer among the ruins is Maj. E. G. Machin, once a ctor in Indiana, now assistant construction engineer in one of our British areas.

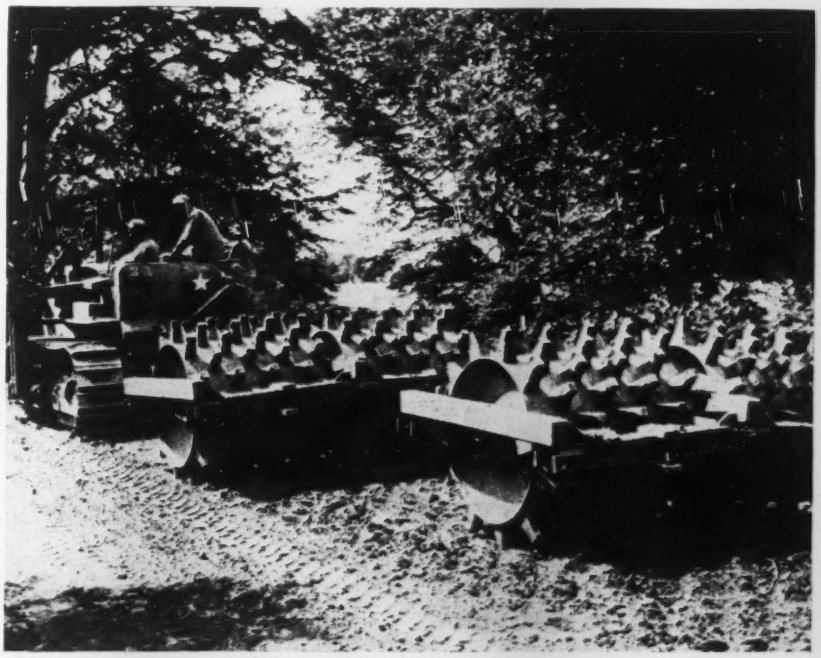
t makes the city look bigger than y is, but at the same time much than it otherwise would. The bad is the water supply, which is dis- in open curb-side ditches, a prac- tified by the Moslem belief that ning water is pure. Several times he water, which comes to the city e mountains through ancient tun- ghanats, is turned into the a signal for householders to rush fill jars and crocks, and to wash othes and even themselves. A re- t on this procedure by the more residents is to divert the water sement cisterns from where it is to roof tanks for pressure dis- n. But this modern touch is of lost upon the *B. coli* who con- go along for the ride.

g up through the desert from sian Gulf, as our truck convoys ins have to do, the cities that are ered, or that may be reached by ps, make no pretense at modern- ful, for example, said to be the apot in the world, is built on the several previous cities, and many habitants use these ancient sub- n caves as homes in the hot sea- ering down what may seem to be well, but in reality is a ventilation tten affords a view of a Persian oom. Unfortunately for those of ops who are interested in such most of the native sections of Mid- tern cities are "out of bounds."

er desert city of significance is since it was this malodorous com- hat the Germans had apparently ed as the center of a great farm- to be based on a reincarnation rigation system that had caused rt to bloom in ancient times. At y had built a battery of grain and several pretentious office s before the British, with char- c political and military acumen, it was time to throw them out. it only in the fields of politics that the British get results in the Middle East; the activities of their Royal Engineers, particularly, are often worthy of note. For example, many British barracks are built with solid brick walls, windows being confined to ventilation openings, about 18x30 in., near the eaves; a shielded ventilation slot is also provided along the ridge of the roof. It is a design that some of our Engineers think we would be wise to adopt.

One British design that we have used extensively for shops and warehouses, especially in Africa and Palestine, involves a precast concrete frame which goes by the name of "Stonehenge," presumably because the bents suggest the famous Druid ruins of that name on England's Salisbury Plain. A good many of our Engineers mistakenly call it "stone hinge" construction, based on the fact that the columns and beams of a bent are connected by steel dowels. In one of the accompanying illustrations it will be noted that the "Stonehenge" bents run in the longitudinal direction only, transverse roof members being trussed timber purlins. The "Stonehenge" beams are placed on a slope, thus providing a sawtooth roof.

Another British practice, which we used in Palestine, was to precast wall panels of a building on platforms built adjacent to the footings, and then by means of cables from a tower moving along the centerline of the building to pull the panels upright into their final position. No forms other than the pouring platforms were required. Pilasters between the precast wall panels were cast in place.



In England, Army Engineers of a general service regiment try soil-cement construction for the first time in that theatre. This is a road in a forest-hidden bomb depot.

Balconies in Basra are carried on railroad rail beams and flat brick arches.

Weird, arid mountains of northern Iran, through which our supply route to R winds. Bad spots, like the one in the foreground, are now being widened.

One of the most interesting Royal Engineer jobs in the Middle East is a "sinking" bridge. Stated most simply this is a lift bridge in reverse, the span being lowered under the water instead of being raised above it to permit tall-masted ships to pass. The objective sought by the designer, Brig. C. Gifford Hull, R.E., was economy, since the usual towers could be dispensed with. Actually, because the sheetpile wells in which the counterweights were to operate were not built plumb, or shifted in the soft river silt after the piling was driven, towers had to be provided. However, the towers could be made only about 30 ft. high, since the depth to which the span is lowered under water is approximately 20 ft.

This interesting bridge will accommodate both a railway and a highway on its 15-ft.-wide deck-truss roadway. The span is 90 ft., but the clear opening is only about 80 ft., since the ends of the bridge extend into 5 ft. recesses in the abutments; these recesses keep the span from moving with the current when it is suspended on its cables. In up-position the span rests on beams across these recesses. These beams are slid back manually when it is desired to "sink" the bridge. Initially the bridge will be operated by hand hoists at the four corners.

Such spectacular innovations, however, are rare, so that one's memory of a trip across the war-construction front is more apt to bring into focus a lot of little things, such as, for example, the 24-in. dia. drain pipes that drop from the roofs of the hangars and shops in arid Marrakech, French Morocco, and which are said to be none too large to handle the spring rains; or the sudden realization that the prefabricated timber ha being erected at a camp in Egypt a C.C.C. buildings from home, and the sturdy tandem roller operati the nearby runway is one that wa tured from the Italians in Eritrea.

You will also recall the use o pieces of railroad rails in the along the streets of Basra in Iraq t port cantilever balconies, the flow ing brick arches sprung between t tom flanges of the rails; or the s of steel H-piling that arrived in E after the pier for which it was int was completed, and eventually end in Egypt in the piers of a bridge, columns of an airbase operations ing and in the beams of a power where the engineers welded two 12-in. sections together to provide in. "plate girder" that would span

Nor can you forget the stori troublesome little construction-pla problems, such as the difficulties in ing an international labor force in those of Moslem faith use Friday rest day, those of Jewish faith Sat and those of Christian faith Sunday necessity for scheduling all surve be done before 9 a.m. because of th waves and dust storms; and the cu need for locating gravel pits in Ira would furnish aggregates whose content would be under, say, 30 p

All in all, it is a grand job that ican engineers and construction m doing on this side of the world, has been a grand experience to w and record some of its highlights. reminds me that there is still a story written: "Beating A Path to t Back Door." And it had better be for this job really deserves it.

Italian construction equipment is of good quality and design. This roller is seeing service on one of our African airfields. The Engineer officers are Maj. L. T. Weathers and Capt. Norris B. Shumate of the Middle East Theatre.

(See next week's issue for this which actually was written as

Letter from LATIN AMERICA

Edward P. Cleary
Managing Editor, Engineering News-Record

This is the first of Mr. Cleary's reports to come through, although it was the second one written, according to his marginal note. Its publication was delayed temporarily in the hope that the first report would come through. Now that later reports are being received—with some others still unaccounted for—further delay appears unwarranted.—The Editors.

COLOMBIA, July 26. Outstanding ... my impressions of Colombia, ... I am about to leave on my way to ...dor, is the excellence of municipal ...c works facilities. Gaged by United ...s standards, they would rank pretty ... and in some respects exceed in ...ty and management those found in ... States.

...owever, before going into details, a ... about my stop in Balboa is in ...r. En route on one of the roomy ...to-Clippers" of the Pan American ...ays, my seat companion was José A. ... J., Minister of the Treasury of the ...ublic of Panama, who was return- ...from Washington. He had been en- ...d in arranging some of the details ...the construction of a cement mill, ...first to be built in Panama. Cement ...w imported, the price being about ... times that in the States. Panama, ...Mr. Sosa, has an abundance of lime- ...e and cement rock.

... Albrook Field in Balboa I was met ...Howard D. Schmidt, former state ...ary engineer of Tennessee, who is ...ting mosquito control activities in ...ma for the office of the Coordinator ...ter-American Affairs. In cooperation ... the Panamanian Government, which ...aring the cost of the program, ten ...age projects have been undertaken.

Drainage and mosquitoes

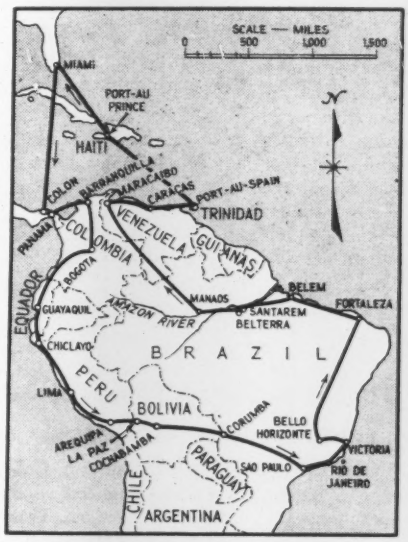
...e effectiveness of drainage and ... mosquito control measures was ...atically illustrated by statistics on ...decline of malaria, which were shown ...e by Guillermo Rodriguez, Sanitary ...neer of the Panamanian Government. ...e period 1931-42, the malaria rate ...me districts has been reduced from ...ercent to 2 percent. Mr. Rodriguez is ...ting construction operations along ... James D. Caldwell, Captain, Sani- ... Corps (A. U. S.). Prior to his as- ...ment with the Coordinator's office, ...ain Caldwell was a sanitary engineer ...e Tennessee Health Department.

...fore leaving Balboa, I saw Major ...ld Gotaas, Sanitary Corps, who was ...ng an inspection trip in his role as ... engineer of the Health and Sanita- ... Division of the Coordinator's office. ...r Gotaas was in the throes of a ... form of torture from "chiggers" that had burrowed into his legs and ankles; when he learned that I, too, had been tramping around the bush he said, "You'll find out what it's all about in the next ten days" (I did!).

Now, to get back to public works in Colombia. At Barranquilla, on the northwest coast, the pride of this city of 160,000 is the *acuaducto*, or water supply system. Pure and abundant water in these parts assumes virtues that we in the States have long since forgotten; but even the most sophisticated waterworks man would understand the pride of Barranquilla in its up-to-the-minute 16 mgd. rapid sand filtration plant.

Built in 1929 from designs prepared by Pearse, Greeley and Hansen of Chicago, the plant was doubled in size within the past two or three years. It was of great interest to learn that W. W. DeBerard, formerly Western Editor of *News-Record*, and now city engineer of Chicago, served as a special consultant on this job, along with Charles De Leuw, also of Chicago.

Director-general of municipal public works activities in Barranquilla is Samuel Hollopeter, a hustling Hoosier engineer, who has held this post since its inception in 1925. He is the top man of a board of three, that builds and operates water supply, sewerage, refuse disposal, streets, market and slaughterhouse facilities; other members of the board are Colombians, one of whom is a representative of the city council and the other selected by the local chamber of commerce. (The latter is a semi-official organization in Colombia.) The board collects real-estate taxes and other revenues, in addition to its activities as a construction and operating agency. The manner in which it operates will be detailed in an article to follow.



Ed Cleary's South American route

Public works in Cali

At Cali, a city of 120,000 population, public works are likewise organized as a separate enterprise, apart from the municipal administration, although here the board of the *Empresas Municipales* (municipal enterprises) as well as the entire staff is composed of Colombians.

As in Barranquilla, most of the streets are paved and provided with curbs and sidewalks; reinforced concrete paving is widely used. Except for the primary thoroughfares the streets are narrow, a 16-ft. width being general. The Cali River, about 125 ft. between banks, passes through the heart of the city, and is spanned by a number of small steel and reinforced concrete bridges; in keeping with the colorful treatment of all the buildings (yellow and pink predominating), some of the concrete bridges are painted in pastel pink.

Much building is being done in Cali, which is in the center of the Cauca Valley, probably the richest agricultural, mining and textile manufacturing area in Colombia. Reinforced concrete frame and brick construction is used and the architectural style is modernistic. Biggest current jobs are a six story city hall, a $185,000 market and a three story office building.

Housing projects are very much in evidence, a typical one containing perhaps 30 single-family dwellings. Built by cooperative organizations representing labor unions, they are sold on a $600 down payment and a 20-year rent-amortization basis. Total cost of a house is about $3,000. Purchasers are the skilled workers of the region, who are paid the equivalent of about $6 a day.

Cali also boasts of its modern water treatment facilities, designed by George Bunker in 1936.

Pablo Scarpetta, one of the officers of the *Empresas Municipales*, spoke most highly of the benefits that had come to Cali as a result of the adoption of United States engineering practice and equipment. He expressed the hope that after the war United States engineering talent would be more easily available to Colombia, and that a way would be found to facilities the education of Colombian boys in our engineering schools.

WASHINGTON HIGHLIGHTS

The War Labor Board recently ruled that it can exercise "war power over private contracts, which power supplants that of the state in time of war." The opinion, written by Wayne L. Morse, public member of the WLB, in a case involving the J. Greenebaum Tanning Co., involves matters of interest also to the construction industry. The opinion reads in part:

"No law of a state which is aimed at inserting conditions in a collective bargaining contract between an employer and the bargaining agent of the employes can be said to supersede any order of the War Labor Board regulating relations between employer and employe in time of war when the power to issue that regulation flows from the war powers of the United States.

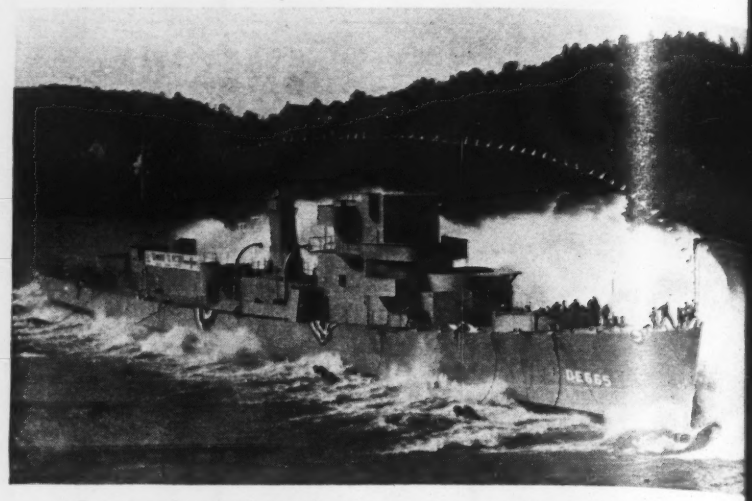
"The Supreme Court made it clear that if a state act purports to work a forfeiture of the rights granted by the National Labor Relations Act, such portion of the state act is a nullity."

OPA's recent activities have affected prices of a number of building trades materials. A new and separate price measure, Maximum Price Regulation No. 466, which became effective Sept. 18, translated into dollars and cents former formula ceilings for three or four classes of building materials made from asbestos cement.

They are roofing and siding shingles; lumber, flat sheets, sheathing and wallboard, and flexible wallboard and decorative flexible wallboard. Corrugated sheets—the fourth material—received a reduction in price by elimination of the ten per cent increase put into effect by most of the industry in the spring of 1941. For the first three materials, maximum prices reflect prices of the first half of 1941.

Cathedral glass, on the other hand, because the category includes factory and other flat glass in addition to glass used for church decoration, has been revoked from price control exemption, effective Sept. 20. It will hereafter be covered by Max. Price Reg. 188.

Also effective Sept. 20 is a regulation which preserves the general level of prices in effect for distribution yard sales of hardwood lumber but at the same time removes some of the inequities. Whereas the highest prices individual sellers charged during March of last year were formerly approved by OPA, the new procedure establishes maximum distribution yard prices as the applicable basic mill price, plus average inbound freight, plus a handling charge, plus margins of mark-up.



Dravo launches destroyer escort, gets star on E

Dravo Corporation recently launched a Destroyer Escort vessel from its Neville Island shipyard, the first such fighting ship to be launched at such a distance from salt water. It was built on an assembly line on side moving carriages following methods described in ENR July 29, 1943, p. 201, and side-launched into the Ohio.

Launching of the D. E. was only part of a ceremony which included award to Dravo of an additional star signifying the third renewal of the Army-Navy "E" for excellence of production. Renewal of the award is made only exceeding the record made in winning original award. Dravo has flown the "E" since the war started, having been awarded the Bureau of Yards & Docks pennant on December 6, 1941.

On the same recent day Dravo launched LST (Landing Ship for Tanks) from another of the yard, making it a very unusual day shipbuilding for an inland plant.

Dollars and cents prices have been fixed for dried activated sewage sludge as follows: $3 per unit of ammonia at Milwaukee, $2.80 at Chicago, and $2.60 at Houston.

In another order, OPA has emphasized that maximum prices for coal tar are subject to customary discounts for purchasers.

Among price changes for lumber recently ordered by the Office of Price Administration is one effective Sept. 2, that revokes ceiling prices for Southern pine joists and planks, box lumber, factory flooring and shop grade material. Hereafter, producers must apply to OPA for approval of prices on these items, for which prices will be no higher than those formerly provided in the ceiling tables. It was found that many buyers had been forced to pay structural grade prices for dimension grade lumber.

An amendment to MPR 94—which had added three dollars per 1000 feet for "inch shop" Western pine lumber—limits the increase to sales of the grade of "shop common," effective Sept. 9.

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Large housing project scheduled for Chicago

Construction will start soon on Chicago's largest federally financed and operated war housing development. This project, estimated to cost $9,000,000, will accommodate 1,500 families. Priorities for its construction were announced last month by the National Housing Agency when it reported a new quota of 3,2[illegible] housing units for the Calumet area. Of these, 1,731 are to be built by public funds while the 1,500 are to be government financed.

The 157-acre tract selected as the site for this project is bounded by 130th st. on the north, by Champlain and Langley avenues on the west, by 133rd st. on the south and by the Beaubien forest preserve and the Michigan Central R. R. right-of-way on the east.

Initial occupancy is set for next spring with completion of the entire project scheduled for August, 1944. Designs, plans and specifications are being prepared by Shaw, Naess and Murphy, architects, of Chicago. Bids will be opened Oct. 15.

Plans provide for the 1,500 homes to be built in two-story brick row-house groups of some 6 to 8 units each. Heating will be provided by forced circulating hot water systems supplied by [illegible] group plants. Homes will be rented only to war workers and rentals will be under $40 per month.

The Federal Public Housing Authority is acquiring the land, will provide funds for construction and retain the title. The Chicago Housing Authority will negotiate contracts with architects, builders, and others, and will supervise construction and manage the project when completed.

nternational airport proposed or Detroit, Mich., and Windsor, Ont.

n has been approved by city councils and a preliminary engi-ering report has gone to government authorities at Washington d Ottawa. News of airport projects in six other sections.

ere is a lot of discussion in Detroit e present time about airports, in-g a proposed international one to uilt just across the Detroit River at sor, Ont., and another one in Wayne ty.

e Windsor project has been ap-d by the Detroit Common Council preliminary engineering report has submitted to government authori-at Washington and Ottawa. The sed site is southwest of the Windsor of the Ambassador bridge. The esti-d cost is $12,000,000, including land, developments and buildings. A four miles square is planned. De-committee members believe that the ct might be financed by transfer of from the United States to Canada a lend-lease arrangement.

stoms and immigration inspection th countries at the port would be ified by having the actual landing declared "free" territory from which s would taxi directly to American nadian depots.

lo, N. Y.—Discussions are now place between city and army offi-of a proposal that the Army take he municipal airport.

hester County, N. Y.—The final y of the county airport in the fine area of the town of Purchase was eted Sept. 17, and fliers of the and Navy began using the field as ense base. The airport has three runways each a mile long. The paid $300,000 for the site and the l appropriation is $3,500,124.

siderable silt has washed into New City's adjacent Rye Lake Reservoir e of the freshly turned soil at the t, but the growth of turf in the area ected to terminate this bad situa-

the return of peace, Westchester expects to get the airport for rcial use.

nville, Fla.—The City Commission anted an appropriation of $3,000 urvey of the city's two airports to ine what improvements will be after the war to handle the large of business expected. Commis-Thomas C. Imeson says that al-ten airline companies have made ll make application to the Civil utics Board for new airline routes h Jacksonville.

Chicago, Ill.—The municipal airport, one of the busiest in the world, is considered inadequate to handle today's traffic, and various proposals are being made for new fields and for the expansion of existing ones in and near Chicago.

St. Louis, Mo.—City officials of St. Louis consider the establishment of a second major airport for that city important. The city's engineers and the Municipal Airport Commission are to be asked to restudy all of the proposed sites, including the Columbia Bottoms, the Hall's Ferry Road site, in the northern part of St. Louis County; and the Gravois Creek, Meramec Bottoms, and Tesson Ferry Road sites, in the southwestern part.

The Tesson Road and Columbia Bottoms sites offer the best locations for construction of a second major airport, according to T. E. Flaherty of Kansas City, regional superintendent of airports for the Civil Aeronautics Administration, who recently made a report to the Airport Committee of the St. Louis Board of Aldermen.

"Generally speaking," Flaherty wrote, "the site should be located on the high ground west or southwest of the city, and as far from Lambert Field as possible." The Tesson Ferry site near Gravois road and Lindbergh Boulevard is said to meet these qualifications better than the Columbia Bottoms site.

However, Flaherty pointed out that the construction costs at the Tesson Ferry road site might be quite high because the ground is rolling and rough, and some buildings would have to be removed. "Columbia Bottoms appears to have a decided construction advantage," Flaherty continued. "Its most serious disadvantage is probably frequency of fog. Otherwise this site would offer only simple construction and economic problems provided it can be satisfactorily filled in for flood protection, as has been planned."

Akron, Ohio.—The George A. Fuller company has been named to build a new $2,500,000 flight hangar and service shops for the Goodyear Aircraft corporation at Akron. Construction will start immediately.

Financed by the Defense Plant corporation, the 35-foot high hangar will be used for the servicing of Corsair fighter planes made by Goodyear for the Navy.

Acme Photo

Brighton's brick viaduct damaged by German bomb

The bombing of Britain is now largely a hit-and-run affair by low-flying German intruder planes that choose the easiest and quickest targets, a recent one being the fine brick arch railway viaduct in Brighton, the coast resort town only 75 miles from France, across the Channel. The bomb apparently connected with the near side parapet and sidewalk, the resulting explosion blasting the arch barrel and the walls that supported the roadway, but failing to dislodge the spandrel beam under the far side parapet. None of the other arches was affected, so that the necessary repair job should be speedily accomplished.

JOBS OF THE WEEK

DWELLINGS, Watts, Calif.
Raydon Building Co., Los Angeles, Calif., will construct dwellings by own forces. The estimated cost will exceed $1,000,000.

RESIDENTIAL DEVELOPMENT, Lansdowne, Pa.
Warner-West Corp., Lansdowne, Pa., will construct residential development in Lansdowne Park, Delaware Co., by its own forces. The estimated cost is $3,000,000.

BUILDINGS, Nevada
Stolte, Inc., Alameda, Calif., and MacDonald & Kahn, Inc., San Francisco, Calif., have been awarded the contract for buildings in Nye County by U. S. Engineers, Sacramento, Calif. The cost is under $1,000,000. J. A. Casson and N. M. Ball Sons, Hayward, will build the runways for less than $1,000,000, and aprons will be constructed by A. Teichert & Son, Inc., Sacramento, also at less than $1,000,000.

BUILDINGS, Iowa
U. S. Engineers, Omaha, Neb., awarded a contract for buildings in Kossuth County to Lenci, Lenci & Englund and H. L. Stavn, Montgomery, Minn. The estimated cost is $1,541,000. Howard R. Green Co., Cedar Rapids, Ia., is the engineer and architect.

HOUSING, Texas
Public Housing Authority, Fort Worth, awarded a contract for two housing projects, to Robert E. McKee, El Paso, Tex., at $1,408,000. Thomas, Sharp, Welsh and Goodwin, Dallas, are the architects and engineers.

DWELLINGS, Texas
James T. Taylor, Fort Worth, Tex., will build dwellings by its own forces. The estimated cost is $3,000,000. David M. Duller, Houston, is the architect.

TRANSIT FACILITIES, New York
F. W. Foley, Inc., Brooklyn, N. Y., was lowest bidder for making changes in transit facilities, improvement of Brooklyn Bridge, and its approaches in Brooklyn and Manhattan Boroughs. The Board of Transportation, New York, opened bids and the low offer was $700,000.

AIRPORT, Alturas, Calif.
Kuckenberg Construction Co., Portland, Ore., was the lowest bidder for constructing an airport eight miles northwest of here when the Civil Aeronautics Authority, Santa Monica, opened bids, at $1,281,419. Larson Brothers and Harms Brothers, Sacramento, were low on Schedule 2 at $554,226.

DWELLINGS, Lakewood Village, Calif.
Griffith & Legg, Lakewood Village, will construct 298 frame dwellings by their own forces. The estimated cost is $900,000.

AIR FORCE INSTALLATION, Oregon
U. S. Engineers, Portland, Ore., awarded a contract for an army air forces installation in Jefferson County to Morrison-Knudsen, Inc., and Ford J. Twaits Co., both of Los Angeles. The work will cost more than $1,000,000.

SERVICE CENTER, Pennsylvania
Turner Construction Co., Philadelphia, Pa., has been awarded a contract by Fleetwings, Inc., Bristol, Pa., for two recreation service buildings to cost about $1,000,000.

HOUSING, Florida
Public Housing Authority, Atlanta, Ga., awarded a contract on housing to A. Farnell Blair, Decatur, Ga., at $955,771. Young & Hart, Pensacola, Fla., are the architects.

HOSPITAL, Pleasanton, Calif.
MacDonald & Kahn, Inc., San Francisco, Calif., will construct a hospital for Bureau of Yards & Docks, Navy Dept., Washington, D. C., at $1,290,700.

RESIDENCES, Oakland, Calif.
Phil Heraty, Oakland, will construct three hundred residences by his own forces at $1,500,000.

GRADE SEPARATION, Michigan
Michigan State Highway Department, Lansing, has received lowest bid for constructing highway underpass for grade separation, at New York Central Railroad over Detroit Industrial Extension, in Dearborn, Wayne County, from W. J. Meagher & Sons, Bay City, Mich., at $693,399.

Note—Additional bidding and contract news on many projects large and small appear in the Construction News section beginning on page 14.

Urban redevelopment act adopted in five states

Indiana, Kansas, Maryland, Mis[souri] and Wisconsin have adopted legisla[tion] this year to facilitate the rebuilding blighted areas of cities by private development corporations operating under supervision of a public agency. American Municipal Association repo[rts] New York, one of the four states wh[ich] had such legislation before 1943, ma[de] several changes in its laws, including pro[vi]sions that annual payments of inter[est] and dividends be accumulative and in[cre]asing the period of tax exemp[tion] from 20 to 25 years.

Indiana's act authorizes corporati[ons] to carry forward slum clearance or neig[h]borhood improvement projects. N[o] more than five percent of the area m[ay] be allocated to commercial uses and [at] least 50 percent must be devoted [to] streets, alleys and parkways. The s[ite] is subject to approval by the planni[ng] board or commission of the city and [it] is then subject to approval of a st[ate] agency.

After a corporation has acquired ti[tle] to or holds an option on or a contr[act] to purchase at least two-thirds of [the] ground, it may condemn other lands, i[m]provements, easements and proper[ty] rights within the area. Following the [pre]policy of the Illinois, Kentucky, Kans[as], Maryland and Missouri acts, the India[na] law contains no provisions for tax [ex]emption, freezing of assessed values [or] other types of preferential treatment.

Though similar in nature, there is so[me] difference in all the acts as to meth[od] detail and eminent domain provisi[ons]. Wisconsin's act, for example, is the o[nly] one of the five granting tax benefits [to] urban redevelopment corporations. R[eal] property held by such corporations m[ay] be exempted for 10 years from any in[cre]crease of taxation.

Maryland's act differs from the oth[ers] in that the Land Development Comm[is]sion of Baltimore, the city to which [the] act applies, must first acquire the la[nd] in areas to be rebuilt. After laying do[wn] various standards for the areas, and [ap]proving development plans along w[ith] the city planning commission, the C[om]mission turns the actual building [of] over to the reconstruction develop[ment] corporation.

Though manufacturers of mine[ral] wool for insulation have been permi[tted] recourse to the special "national or g[en]eral shortage" provisions for adjustm[ent] of maximum prices, this, it is decla[red] by OPA, will not effect consumer pr[ice] levels. Manufacturers are permitted [to] increase their price where necessary [in] order to continue manufacture of [the] product.

nstruction Communiques

Engineering News from the Battlefronts

—A high tribute to the bravery of my engineers was paid in a com- tion sent out by the United Press t. 12, as follows: "Many American ers have died on the Italian s. They have died in their work ey have established a record for e that those who have watched never will forget. While other s have been able to dive into con- foxholes, they have been out in en, working tirelessly under straf- d enduring repeated heavy attacks rman bombers.

spite this, they have kept up their able, unwholesome job of shifting nds of tons of ammunition from g-craft to dumps, building roads aking it possible for our beachhead ome solidly established. Theirs has he greatest feat of collective hero- er witnessed. While other troops een able to concentrate on defend- emselves and destroying the enemy, ave been unable to take cover for a ."

menting on this dispatch, the New Times said editorially:

ndings on those beaches were ef- by the engineers. On the Italian s they had other work to do and fied doing it. They are masters of trades, men-of-all-work as well as -arms.

ey lay and unlay mines, dig es, run railroads and railroad make bridges, roads, fortifications, s, bomb-proofs, gun emplacements, ks, anything buildable. They map mouflage. They are photographers inematographers. They incinerate, rate, disinfect. They are first-class ers. They attend to the water sup- hey are expert handlers of explo- and all tools, including a rifle and net. One of their favorite sports is a flame-thrower at a pillbox.

is isn't a catalog; it's only a hasty n from the accomplishments of gineers. They are real Yanks of nkeeest kind. We can't be too of them."

dle East—Alexander Martin, of uver, B. C., tells how the Scots s in the desert occupied some of dle time. In the space of four they dug from the sands and gul- ear Geneifa stones sufficient to a handsome church. They quarried uled and cut the "stane," built the nd have now dedicated it. All by lunteer labor. It was opened with h battalions in attendance, fully ed with pipes and kilts. Naturally amed St. Andrew's Kirk, and was built as a memorial to comrades lost in the Middle East.

Sicily—Ernie Pyle, the well-known correspondent of the Scripps-Howard newspapers, wrote a whole series of articles praising the work of the U. S. Engineers. Here are a few extracts:

"One of the sagas of this war—and one that can't be fully written until after the war—is the career of the combat engineers. Their work usually comes in spurts, and it is so terribly vital when it does come that the percentage of fast workers is probably higher than in most other branches.

"On the Point Calava road crater job there were two men who worked like demons. Such men must be driven by the natures they're born with—by pride in their job, by the mystic spark which forces some men to give all they've got, all the time.

"These two men were Corporals Gordon Uttech of Merrill, Wis., and Alvin Tolliver of Alamosa, Colo. Both were air compressor operators and rock drillers. Uttech worked all night, and when the night shift was relieved for breakfast he refused to go. He worked on throughout the day without sleep and in the final hours of the job, he went down under the frail bridge to check the sag and strain as heavier and heavier vehicles passed over it. Tolliver, too, worked without ceasing. I never saw him stop once throughout the day. He wrestled with the great chattering jackhammers. He spread and rewound his airhose. He changed drills. He regulated his compressor. He drove eye-hooks into the rock, chopped down big planks to fit the rocky ledges he had created.

"The whole battalion, known as the 10th Engineers of the Third Division, is commanded by Lt. Col. Leonard Bingham. He worked all night along with the rest. The commander of the company is Lt. Edwin Swift of Rocky Ford, Colo., who in civil life is a geophysicist.

"Lt. Robert Springmeyer is from Provo, Utah. He is an engineer by profession and a recent father. When he got the news about his offspring he somehow managed to buy a box of cigars, but he ran out of recipients when the box was about half gone. So now, after a long, grueling job he comes in, shaves, takes a helmet bath, puts on clean clothes, then sits down against a tree and lights a big gift cigar in his own honor—the rascal."

North Africa—Capt. Robert M. Sexton, a 23-year-old St. Louis, Mo., engineer with an aviation engineering regiment, has been commended by Lt. General Carl A. Spaatz, Commander of the American Air Forces in North Africa, for "his superior work in planning and building an airport in 15 days, which was eight days under the deadline set by his superiors. The airport consisted of two standard runways, 78 hardstandings and taxiways, interconnecting them. The work involved the movement of large quantities of rock and dirt." The citation also praises his tact and courtesy in dealing with the natives.

Captain Sexton is a graduate of the Missouri School of Mines and Metallurgy, Rolla, Mo. He was called into the regular army from the Reserves on Dec. 7, 1941, the day that the Japs attacked Pearl Harbor. Prior to entering service he was employed as an engineer by the Westinghouse Electric & Mfg. Co. at Pittsburgh, Pa.

Southwest Pacific—Brig. Gen. Henry L. Larsen, USMC, recently military governor and commanding general of the U. S. defense force in a southwest Pacific area, writes:

"I wish to pay tribute to the valuable services rendered by construction battalion units of the U. S. Navy which served under my command.

"Work accomplished by one of these battalions included the construction of a complete airport requiring blasting away lava rock on one end and filling in with coral rock out over the fringing reef to make a runway; fuel storage tanks with pumping system and dock; a repair base; development of water works; power plant systems and services; refrigeration plants; construction and maintenance of roads under most difficult conditions; construction of shelter, galleys, mess halls, storage buildings and installation of sewerage systems for a mobile hospital and a large camp.

"Under the conditions in which we were operating many difficult engineering problems were presented constantly. No obstacle was ever too great for the Seabees; on the contrary these were always overcome, often by ingenious improvised methods.

"The demands made upon any commander in the field in organizing, establishing and maintaining an advance base and the conditions encountered in this theatre of operations are such that in my opinion it would be practically impossible to carry on without the invaluable services provided by the Seabee battalions.

"Although this organization is new in the Navy, it has already earned the highest respect and admiration among comrades in the Marine Corps. I have heard many other commanding officers speak of the work of Seabees under their commands and without exception it has been most favorable."

MEN AND JOBS

E. D. Smith, one of the naval officers in charge of construction at Camp Lejeune, New River, N. C., since 1941, has been promoted to the rank of commander in the U. S. Naval Reserve from that of lieutenant commander. He has been assigned to New River for work on the Marine Base.

W. Erb Hanson, county surveyor, has been appointed city engineer at Connersville, Ind., to serve while James D. Nash is on leave of absence, to serve in the Seabees.

C. H. Mackeever, acting chief engineer in the Ohio State Highway Department's planning survey, has assumed the duties of J. J. Darnall, survey manager who has resigned to enter private industry. Mackeever went to the planning survey last March from New Philadelphia, Ohio, where he was planning engineer for the Highway Department.

Ben J. Finman has been appointed city engineer of Tampa, Fla. He succeeds R. H. Cason who retired after 38 years of service.

Tom Clark has been appointed road engineer for Island county, Wash. He held the same position from 1916 to 1920, and at the time of his re-appointment was road supervisor.

George Sotham, district maintenance supervisor at Klamath Falls, Ore., for the Oregon state highway department, has been commissioned a first lieutenant in the specialist reserve branch of the U. S. Army Engineers and is now receiving special training at Fort Belvoir, Va.

George Emerson Cressler, superintendent with the Porter W. Yett company of Portland, Ore., has received a commission as captain in the Army Engineers Corps and has been sent to Camp Claiborne, La., for basic training.

Major Delbert R. Ward of New Braunfels, Tex., has been promoted to his present rank at Camp Butner, N. C., where he is commanding officer of the Second Battalian of the 52nd Engineer Combat Regiment. Major Ward received his bachelor of science degree in civil engineering at Texas A and M College, and before the war was a construction engineer.

Major C. A. Grennan, executive officer of the 303rd Engineers at Camp Butner, N. C., has been made commander of the battalion and division engineer for the 78th Division now in training at the post. He succeeds **Colonel Edward M. Markham, Jr.** who recently was assigned to a new command at Camp Phillips, Kan. Grennan is a graduate of the University of Illinois civil engineer in 1929.

Rear Admiral Carl H. Cotter, CEC, USN, has recently been advanced from his earlier rank of captain. He is director of the Pacific division of the Bureau of Yards and Docks, U. S. Navy.

Felix O. Beazley, director of the Nashville, Tenn., Department of Public Works, retired Sept. 15, after a service of 32 years. A native of Nashville he was employed by the City Engineering Department at the age of 19, serving as axeman, chainman, rodman and instrument man, and was made assistant field engineer in 1923. He was promoted to construction engineer in 1931, and became city engineer in 1934. In June, 1943, he became a department director under the new set up of the department of public works.

Mrs. Robert S. Beightler, wife of the commanding officer of Ohio's 37th Division in the South Pacific, has taken over a desk in her husband's former office in the State Highway Department. Mrs. Beightler will serve as secretary to Hal. G. Sours, who succeeded Major-General Beightler, as highway director of the State of Ohio.

Sidney T. Roebuck of Newton, Miss., highway commissioner for the Central District, Mississippi, has been elected chairman to succeed the late Hiram Patterson.

John W. Raymond, Jr. of Beverly, Mass., has been named head of the storm water and flood control survey of six streams in southern Westchester County, N. Y.

Ray Campbell, city engineer and superintendent of the public works department at Laramie, Wyo., has been commissioned a lieutenant (JG) in the Engineering Corps.

J. G. Smith, Cheyenne, Wyo., has been appointed superintendent of the Wyoming Highway department. He has been with the State Highway Department since 1920, and is a graduate of the Tri-State College of Engineering.

W. E. Alworth, city planning engineer of Pasadena, Calif., for the last 15 years, became city planning engineer of Oakland, Calif., on September 1. Replacing **Major John G. Marr** of the U. S. Army, who was granted a leave of absence to attend a school of governmental administration of foreign territories. Alworth takes his new post through appointment by City Manager Charles R. Schwamberg. A member of the Pasadena engineering staff since 1924, Alworth was promoted to city planning engineer in 1[illegible]. While there he gained recognition for part in planning the $6,000,000 Arroyo Seco arterial parkway, nine miles long between Pasadena and Los Angeles.

W. H. Webb, Jr., of Raleigh, N. C., was connected with the engineering division of the North Carolina Highway and Public Works Commission prior to entering the Army, has been commissioned second lieutenant in the Corps of Engineers following graduation from the Officer Candidate School at Fort Belvoir, Va. Lieutenant Webb received his degree in civil engineering from the University of North Carolina.

Lieut. Don. C. Bowman, Jr., 27 years old, former East St. Louis, Ill., civil engineer, has been awarded the Navy and Marine Corps Medal for "inestimable assistance" as an officer of the U. S. submarine Guardfish operating in the Pacific. He was the only officer among six officermen especially honored when the Guardfish was awarded the Presidential citation for sinking more than 66,000 tons of Japanese shipping, undergoing air bombardment and weathering accurate gunfire from three enemy merchantmen.

William Hunter Strong, civil engineer of Portsmouth, Va., is now ensign in the Naval Reserve stationed at Norfolk, Va. with the Construction Battalion.

Major Ray Warren is area engineer of the Camp Davis, N. C. area engineer office, which has been awarded the safety banner for the best safety record of all areas in the Wilmington district during 1942. **Colonel W. S. Moore** is district engineer of the Wilmington District. Lieutenant Colonel J. T. Knight, Jr., is executive officer, and Major B. M. Dublatt is assistant chief of operations.

Captain Francis E. Mullen, assistant to the area engineer at the Gopher Ordnance Works, Rosemont, Minn., has been transferred to an engineering post near Washington, D. C.

When **William Kenney Huddleson,** the last 13 years senior engineering aide with the State Highway Department at Carlisle, Ky., decided to enlist, his wife went too. Both of the Huddlesons have been accepted by the Navy.

Homer M. Ward, former engineer for the Allegan and Van Buren, Mich., County Road Commission, has been appointed assistant engineer by the Ingham County Road Commission.

OBITUARY

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...L. R. Z. Wilson, 54, bridge and ...l engineer, died in Sydney, Aus... recently. His greatest achieve... is the building of the Montreal ...bridge. Following graduation ... University of Toronto, Major ...oined the Dominion Bridge Com... In the first World War he en... with the Canadian Overseas Rail... Construction Corps. He was awarded ...ary Cross. Returning to Canada, ...ned work with the Dominion ...ompany, and became vice presi-dent. In 1935, Australians invited him to construct the Brisbane Harbor bridge, and since its completion he had made his home in Australia.

George A. Field, Sr., 42, construction engineer of Houston, Tex., died there Sept. 3. Mr. Field was connected with Brown & Root, Inc., as project manager on the construction of the Houston Shipbuilding Corporation's shipyard facilities. He was also superintendent of construction in the building of the naval air station at Corpus Christi, Tex. He organized and managed construction of the Goodfellow and Concho army airfields at San Angelo, Tex., the Cactus Ordnance Works at Dumas, Tex., the Bombardier School at Big Springs, Tex., and the San Jacinto Water Project in Harris County, Tex., a federally-financed $3,000,000 project to supply water to the war industries along Houston's ship channel.

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CONTRACTS AND CAPITAL

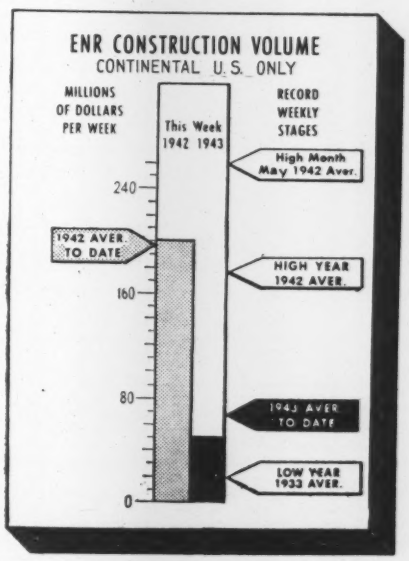
CIVIL ENGINEERING construction in continental U. S. totals $50,722,000 for the week. This volume, not including the construction by military combat engineers, American contracts outside the country, and shipbuilding, is 29 percent lower than in the preceding week, and 75 percent lower than in the corresponding 1942 week.

Private construction is 81 percent higher than a week ago, and 88 percent above a year ago. Public work, however, declines 46 percent from last week, and is down 83 percent compared with last year as both state and municipal construction and federal volume are lower.

The current week's construction brings 1943 volume to $2,488,373,000, an average of $63,804,000 for each of the 39 weeks of the period. On the weekly average basis, 1943 construction is 67 percent below the $7,835,927,000 for the 40-week period in 1942. Private volume, $329,590,000, is 30 percent below a year ago, and public construction, $2,158,783,000, is down 70 percent when adjusted for the difference in the number of weeks.

In the classified construction groups, gains over a week ago are in waterworks, sewerage, commercial buildings, and unclassified construction.

New capital for construction purposes for the week totals $6,908,000, and is made up of $1,378,000 in state and municipal bond sales, and $5,530,000 in RFC loans for industrial construction. New construction financing for the 39 weeks of 1943, $3,037,207,000, is 67 percent below the $9,532,568,000 reported for the 40-week period in 1942.



CONTRACTS

Continental U. S. Only (Thousands of dollars)

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State & Municipal	10,382	8,366	3,915
Total public	$194,214	$62,460	$33,576
Total private	9,107	9,491	17,146
TOTAL	$203,321	$71,951	$50,722
Cumulative 1943 (39 weeks)			$2,488,373
1942 (40 weeks)			$7,835,927

Note: Minimum size projects included are: Waterworks and waterways projects, $15,000; other public works $25,000; industrial buildings, $40,000; other buildings, $150,000.

NEW PRODUCTIVE CAPITAL

	Cumulative 1942 40 weeks	1943 39 weeks
NON-FEDERAL	$565,670	$283,369
Corp. Securities	169,889	17,408
State & Mun.	183,626	100,298
R.F.C. loans	129,455	14,530
FPHA loans	.....	3,133
R.E.A. loans	.....	20,000
Fed.-Aid Hwy.	82,700	128,000
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Index Base=100		1913	1926
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Building Cost	Sept. '43	231.20	124.98
Volume	Aug. '43	119	52

MEN AND JOBS

E. D. Smith, one of the naval officers in charge of construction at Camp Lejeune, New River, N. C., since 1941, has been promoted to the rank of commander in the U. S. Naval Reserve from that of lieutenant commander. He has been assigned to New River for work on the Marine Base.

W. Erb Hanson, county surveyor, has been appointed city engineer at Connersville, Ind., to serve while James D. Nash is on leave of absence, to serve in the Seabees.

C. H. Mackeever, acting chief engineer in the Ohio State Highway Department's planning survey, has assumed the duties of J. J. Darnall, survey manager who has resigned to enter private industry. Mackeever went to the planning survey last March from New Philadelphia, Ohio, where he was planning engineer for the Highway Department.

Ben J. Finman has been appointed city engineer of Tampa, Fla. He succeeds R. H. Cason who retired after 38 years of service.

Tom Clark has been appointed road engineer for Island county, Wash. He held the same position from 1916 to 1920, and at the time of his re-appointment was road supervisor.

George Sotham, district maintenance supervisor at Klamath Falls, Ore., for the Oregon state highway depa has been commissioned a first lie in the specialist reserve branch U. S. Army Engineers and is now ing special training at Fort Belv

George Emerson Cressler, s tendent with the Porter W. Yet pany of Portland, Ore., has rece commission as captain in the Ar gineers Corps and has been sent t Claiborne, La., for basic training.

Major Delbert R. Ward of New fels, Tex., has been promoted to hi ent rank at Camp Butner, N. C., he is commanding officer of the Battalian of the 52nd Engineer Regiment. Major Ward receiv bachelor of science degree in civi neering at Texas A and M Colleg before the war was a constructi gineer.

Major C. A. Grennan, executiv cer of the 303rd Engineers at Cam ner, N. C., has been made comman the battalion and division engine the 78th Division now in training post. He succeeds **Colonel Edwa Markham, Jr.** who recently was assigned to a new command at Camp Phillips, Kan. Grennan is a graduate of the University of Illinois civil engineer in 1929.

Rear Admiral Carl H. Cotter, CEC, USN, has recently been advanced from his earlier rank of captain. He is director of the Pacific division of the Bureau of Yards and Docks, U. S. Navy.

Felix O. Beazley, director of the Nashville, Tenn., Department of Public Works, retired Sept. 15, after a service of 32 years. A native of Nashville he was employed by the City Engineering Department at the age of 19, serving as axeman, chainman, rodman and instrument man, and was made assistant field engineer in 1923. He was promoted to construction engineer in 1931, and became city engineer in 1934. In June, 1943, he became a department director under the new set up of the department of public works.

Mrs. Robert S. Beightler, wife of the commanding officer of Ohio's 37th Division in the South Pacific, has taken over a desk in her husband's former office in the State Highway Department. Mrs. Beightler will serve as secretary to Hal. G. Sours, who succeeded Major-General Beightler, as highway director of the State of Ohio.

Sidney T. Roebuck of Newton, Miss., highway

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CONSTRUCTION REPORTS

Compiled by Business News Department—Engineering News-Record, 330 W. 42nd St., New York
ELSIE EAVES, Manager *SCOTT McLEOD, Statistician*
(Daily service also available—Write for details)

WATER SUPPLY

PROPOSED WORK

†Fla., Daytona Beach—Federal Works Agency, Candler Bldg., Atlanta, Ga., bids soon 2 standard pump. stations.

Ill., Charleston—E. Wimmer, mayor, City Hall, enlarging dam used as city water reservoir. $15,000. Ed. Millar, Mattoon, engr.

†La., Pineville—R. C. Lawrence, mayor, addnl. water imprvs., La. 16-129. $378,000. **FWA.** H. B. Heureaux, Alexandria, engr.

Tex., Port Arthur—R. L. Ruten, mayor, pump. station in Pear Ridge and Foley Ave. C. L. Wignall, archt., and M. D. Gates, engr., both Port Arthur.

†Utah, Tooele—S. J. Selvin, mayor, 2 m.g. concrete reservoir. **FWA** approved $24,500 gr. J. D. Gollaher, city mgr. CD 3/22—ENR 3/25.

Wash., Seattle—Bd. P. Wks., County-City Bldg., Seattle, Zone 4, watermain from Beacon Hill reservoir to 9 Ave. S. along Columbian Way. $66,000. C. L. Wartelle, city engr.

N. B., Edmundston—J. H. Proult, mayor, filtration plant, watermains, $92,000. Fred P. Martin, Town Hall, supt. and engr.

N. B., Milltown—Municipality, purchasing, exten. privately owned Calais Water & Power Co. sys., and developing Hollingworth and Whitney Power sides. $150,000.

N. B., Woodstock—Municipality, Mayor Neal, water and sewer mains. $50,000. G. B. Kilpatrick, Town Hall, engr.

Ont., St. Thomas—Water softening plant, other sys. imprvs. $25,000. J. W. Peart, P. W. Comn., 474 Talbot St., engr.

Que., Lauzon—Permanent imprvs. WW sys. $45,000.

Que., Juebec City—F. X. Chouinard, city clk., exten. watermains, Limolliou Ward. $163,000.

Que., Sherbrooke—City, Alex. Ross, mayor, filtration plant along Magog River, $200,000. Crepeau & Cote, 45 Wellington St. N., engrs.

Que., Valleyfield—Water sys. exten. $20,-000. R. Belanger, City Hall, engr.

BIDS ASKED

Bids Asked October 4

N. J., Cedar Grove—3,060 lin. ft. 6- to 12-in. water supply main, appurtances, Boughton & Lawson, 59 Cedar Grove Parkway, engrs.

Bids Asked October 7

Louisiana—Sewerage & Water Bd., 526 Carondelet St., New Orleans, furnishing, laying 8,700 lin. ft. 2 and 6 in. c.i. watermains, Contr. 224-W; 13,450 lin. ft. 8- to 30-in. concrete sewers, 7,000 lin. ft. 6 in. concrete sewer house connections, both New Orleans Co.

Bids Asked October 11

†Okla., Altus—T. O. Burch, mayor, water imprvs., Okla. 34-179. $98,500. **FWA.** Plans deposit $25. Hudgins, Cobb & Thompson, Cotton Exchange Bldg., Oklahoma City, engrs. CD 9/7—ENR 9/9

LOW BIDDERS

Ill., Chicago—City Dpt. P. Wks., City Hall, Sept. 14, Div. E, 3 motor, 15 ton traveling crane, from Whiting Corp., Harvey, **$14,940;** Div. F, piping, miscellaneous equip., etc., from The Pitt Constr. Co., 1235 Washington Ave., Pittsburgh, Pa., **$163,817.** CD 8/23—ENR 8/26.

CONTRACTS AWARDED

Calif., San Diego—City, City Hall, Murray reservoir outlet works, incl. rein.-con. tower and 400 ft. 48 in. pipe, etc., to W. Trepte, 631-9 Ave., **$27,709.** Bids 9/14. H. W. Jorgensen, City Hall, engr.

Conn., Clinton—Guilford Chester Water Co., 6,700 ft. 10 in. cement lined c.i. watermain, to Le May Constr. Co., Old Saybrook. Est. **$15,-000.**

†Ill., Great Lakes—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., auxiliary watermain, N T S, NOY 7053, to G. D. Hardin, 3139 Indiana Ave., Chicago, **$19,462.**

†Ohio—U. S. Eng., Dayton, reservoirs, Contr. 33-046-eng-23, Greene Co., to **Frank Burke & Son,** 35 S. Dearborn St., Chicago, Ill. **$40,000.**

†Oklahoma—U. S. Eng., 416 Wright Bldg., Tulsa, Zone 2, water supply well, pump house, pipe main, etc., Sol. 957-neg-44-47, Oklahoma Co., to H. J. Happel & Co., 906 Manhattan Bldg., Muskogee, **$28,500.**

†Texas—U. S. Eng., 25 St. and Avenue F, Galveston, addnl. water supply, storage facilities, Contr. 29-005-eng-47, El Paso Co., to Layne-Texas Co., Inc., 6931 Harrisburg St., Houston, **$20,000.**

Wis., Green Bay — City Water Comn., C. Centen, clk. reservoir and pump station, to Baker Constr. Co., Green Bay, **$33,765.** CD 9/14—ENR 9/16 under LB.

Que., Dorval—Dominion Govt., Ottawa, Ont., water supply sys., to N. Devito, 7 Cartier Ave., Pointe Claire, **$15,000.** Dpt. Transport, Ottawa, Ont., engr. CD 8/30.

Que., St. Johns—M. Lebeau, mayor, exten. rein.-con. brick filtration plant, 800,000 gal. capacity, to Jean Paul Trahan, 178 Mercier St., **$32,935.**

Location of ENR Correspondents

Symbols and Abbreviations Include:

† Federal Government
★ Project of $500,000 or over
ENR Engineering News-Record
CD Engineering News-Record Construction Daily
A-E-M Architect-Engineer-Management type of contract

Projects—By Size

Construction projects here reported cover the United States and Canada, are of these minimum sizes or larger: water supply, earthwork, waterworks, $15,000; other public works, $25,-000; industrial buildings, $40,000; other buildings, $150,000.

Classes of Construction

(Named in order of Listing)

Water Supply	Unclassified
Sewers, Waste Disposal	Latin America
Bridges	Public Buildings
Streets & Roads	Commercial Buildings
Earthwork, Waterways	Industrial Buildings

Stages Reported

PROPOSED: (except Streets & Roads):

BIDS ASKED (new announcements only. For full calendar, see also preceding issues of ENR);

LOW BIDDERS: On jobs below $500,000 value all low bidder news will be the final reports published on the projects involved except where award is not made to the low bidder. In this case, a supplementary contract award report will be published.

CONTRACTS AWARDED: Except awards to low bidders previously reported in low bidder stage.

Dates shown are of issue in which last previous report was published.

Note: To comply with censorship requirements, addresses on some reports are being generalized. Data which would reveal the purpose of the improvements and the size are withheld. The name of contractor and general area are reported.

SEWERS, WASTE DISPOSAL

PROPOSED WORK

Calif., San Diego—City, City Hall, 8 and 27 in. vitr. clay sanitary sewers in Encanto Proj. $200,000. H. W. Jorgensen, City Hall, engr.

Calif., San Francisco—Dpt. P. Wks., City Hall, rescinded contract, replacing plain concrete storm drain sewer in Glen Park. CD 7/6—ENR 7/8, under LB.

†Ill., Seneca—Federal Works Agency, N. Wacker Dr., Chicago, sewerage sys., 11-269. $165,415. FWA. McCoy & Wilson, 1541 Chicago Ave., Chicago Heights.

La., Bossier City—Bossier Parish Jury, sewerage sys., Barksdale Annex.

Mass., Northampton—O. E. Brazer, Sewers, sanitary sewer, Old Mill Rd. Over $25,000.

★**Mo., Clayton**—St. Louis Co., c/o County Court, Court House, Clayton, St. Louis Zone 5, sanitary sewers, connecting lines in unserved urban areas. $[illegible] eral funds sought. W. W. Horner, Sec., 1221 Locust St., St. Louis, Zone 1.

†Mo., Springfield—City, c/o City Engr. Office, construction, completion sanitary to serve O'Reilly Hospital area. **FWA.** L. Weeks, city engr. CD 9/2.

Neb., Sidney City—Sewers $40,000, to FWA. R. Fulton, 2327 S. 19 St., engr.

†Oklahoma—U. S. Eng., 416 Wright Bldg., Tulsa, Zone 2, sewage treatment plant, 957-neg-44-74, Canadian Co. $25,000.

Tenn., Memphis—W. Chandler, Court House, addnl. garbage incinerator, $25,000.

†Washington—U. S. Eng., 600 Seattle, Zone 4, outfall sewerage sys., tiation 768, Clallam Co.

†Washington—U. S. Eng., 600 Seattle, Zone 4, sewage treatment plant, pump. sta., Neg. 777, Pierce Co.

Wash., Sunnyside—Sewage disposal addn. $50,000. G. D. Hall, Larson Bldg., Yakima, engr.

Alta., Lethbridge—J. T. Watson, city, sewers, $25,000. J. Haines, City Hall.

N. B., Edmundston—J. H. Proult, sewer imprvs., extens. $13,000. F. P. Town Hall, supt., and engr.

Ont., Galt—James, Proctor & Redfern, engrs., 36 Toronto St., Toronto, bids incinerator, for City, $45,000. CD 8/27—EN

Ont., Kitchener—City, Ald. C. Seiber, soon purchasing equipment so that disposal plant sludge may be processed use as fertilizer. $30,000.

★**Que., St. Hyacinthe**—Hon. T. D. Bouchard, mayor, sewage disposal plant, extens. and sewer mains. $530,000. L. Crevier, Hall, engr.

BIDS ASKED

Bids Asked October 5

Ont., Long Branch (Postal District T—G. H. Clarkson, municipality clk., Shore Rd., sewage treatment plant addn. 000. Gore & Storrie, 1130 Bay St., engrs.

Mo., University City—City, c/o A. J. University City, Purdue-Waldron-Wa Relief Sewer.

Bids Asked October 11

†N. Y., Liverpool—Town Board of Salina, at office. Liverpool, Contr. 1, tion portion of Mattydale sewer east of Brewerton Rd., N. Y., $242. **FWA.** G. L. Traister, supervising adv. ENR 9/30. CD 8/27—ENR 9/2.

LOW BIDDERS

†Arizona—U. S. Eng., 751 S. Figueroa, Los Angeles, Zone 14, Sept. 20, sewer, water facilities, No. 2047, Co., from Del. E. Webb Constr. Co., Ave., Phoenix, **$80,000-$90,000.**

Calif., Los Angeles—Bd. P. Wks., Sept. 15, sanitary sewers, Riverside Forman Ave. Sewer Dist., from 9:40 A 10,024 S. Figueroa St. **$168,211.** CD 9/1

Calif., Newport Beach—City Council Hall, Sept. 20, vitr. clay sanitary sewers purtenances, Central Ave. and other from R. A. Wattson Co., 5528 Vineland North Hollywood, **$114,134.** R. L. Pa City Hall, engr.

†N. C., Carolina Beach—Town, sewerage imprvs. **FWA.** 31-266, from Guion & Co., Wilkenson Blvd., Ch **$40,385.** CD 9/8.

Wash., Everett—City, Sept. 12 imprv sys. in E. Grand Ave. from S. Ely St. homish River, from G P M Constr. 10 Ave. S., Seattle, Zone 4 **$11,967.** Paine, city engr. CD 9/3.

CONTRACTS AWARDED

Calif., San Francisco—Metropolitan surance Co., 3701 19 Ave., San Fran stalling Class B sewage pump in Merced Blvd. and W. Vidal Dr. Bros. and Elkin, 3701 19 Ave. Leonard Schultze & Associates, New York, N. Y., archts.

Conn., Hartford—Bd. Contr. & Sup Main St., Flood Control Contr. No.

etc. (Contracts Awarded, Cont'd.)
el. rein.-con. conduit 2 barrels ea.
th inverted siphon for Gully Brook
River Interceptor pipe lines, to
Zachris, 538 Asylum St. **$46,122.** Bids

ey—New Jersey Shipbuilding Co.,
St., Perth Amboy, sewer collect-
; underground concrete bldgs.,
orges Rd., New Brunswick, **$30,000.**
financed. F. Harris, 27 William St.,
N. Y., engr.

ey—U. S. Eng., 6 and Walnut Sts.,
1 story, concrete block incinerator
outh Co., to J. M. Wester, 320 Am-
Metuchen. **$50,000.**

U. S. Eng., 416 Wright Bldg., Tulsa,
ewage treatment plant addns., Sol.
-52, Dallam Co., to Chas. M. Suttle,
St., Oklahoma City, Okla., **$33,400.**

—U. S. Eng., 1 and Douglas Sts.
., D. C., drainage facilities. Contr.
40, Fairfax Co., to Wilmoth Pav-
P St. S.E., Wash., D. C., **$400,000.**

BRIDGES

D WORK

nerkip—Canadian Pacific Ry. Co.,
strong, ch. engr., Windsor Station,
Que., bridge reconstruction, $30,000.

rt Arthur—United Grain Growers
ilton Bldg., Winnipeg, Man., re-
g trestle. $65,700.

—Province of Quebec, Quebec City,
r Bedard River, St. Bruno, Lake
Co. $25,000. E. Gohier, Dpt. Roads,
y, engr.

Chicoutimi—Canadian Natl. R. R.,
rter, ch. engr. (western region),
Man., relocating main line within
its to eliminate levee crossings.

mpton—Compton Twp., S. W. Brod-
clk., bridge, $25,000. O. Desjardins,
ks., Quebec City, engr.

Patrie—Municipality of Ditton, c/o
lk., La Patrie, rein.-con. bridge over
ver. $25,000. Dpt. P. Wks., Quebec

DERS

Bids Asked October 2

of Columbia and Maryland—Office
man, dist. engr. Pub. Roads Admin.,
bia Pike, Arlington, Va., Project
ry Hy. Dist of Columbia to Camp
ince Georges Co., Md., (bridge under
lver Hill Rd.). **FWA;** adv. ENR

Bids Asked October 5

—State Hy. Comn., S. C. Hadden,
napolis, repairs, new concrete floor,
ge over Mississinewa River, between
and Gas City, Grant Co. Plans de-
. R. Bower, c/o State Hy. Comn.,
D 9/17—ENR 9/23.

Bids Asked October 5

tate Hy. Comn., Ames, bridge on
Middle Tarkio River Crossing in
Tarkio Twp., 30 ft. creosoted wood
Northeast Wing of 90x20 ft. pony
e P-27, Page Co.; rip rapped beam
retard at west abutment of present
high truss with two 40x20 ft.
pproaches on Iowa 64 just west of
west Nishnabotna River Crossing
ects. 8 and 17 Knox Twp., P-576,
mie Co.; tree stream retard constr.
Iowa 184 along west bank of West
a River, Sect. 8, Riverside Twp.,
1) Fremont Co.

ew York—Dpt. P. Wks., Municipal
e 7, removing concrete surfaces of
avements of Queensboro, Williams-
Manhattan Bridges.

DERS

—State Hy. Dpt., Frankfort, Sept.
ting bridge 0.058 mi. Harlan Co.,
s & Breedon, Rogersville, Tenn.,
D 9/3—ENR 9/9 under Roads.

—State Dpt. Hys., Baton Rouge,
lack Bayou Bridge, approaches, 0.46
, gravel surfacing, treated timber
and treated timber sheet pile spill-
o Parish, from Austin Bridge Co.,
ce St., Dallas, Tex., **$55,643.** CD 9/3

n—State Hy. Dpt., Lansing, Sept.
de separation of 1-3 span and 1-5
ete, steel structure, DA-WI XI, 81-
DA-WI B2 of 81-20-6-C-2, Washte-
from Peninsular Constr. Co., 127
a. Bldg., Grand Rapids, **$111,891;**
ration (hy underpass) SN-U-F-X 4
0 C-2, Wayne Co., from W. J.
Sons, 24 and Water Sts., Bay
99.

TS AWARDED

—State Hy. Dpt., Montgomery,
Foster Ferry bridge, consisting
flooring, lighting sys., painting,
Eutaw Rd., SN-SAP-150-C(2),
Co., to J. F. Milam Constr. Co.,
S., Birmingham, **$58,043.** Bids

British Columbia—Dpt. P. Wks., Victoria, three 140 ft. truss span bridge near Smithers. Owner builds. **$75,000.**

STREETS AND ROADS

BIDS ASKED

Bids Asked October 4

Miss., Pascagoula—Bd. Supervs. Jackson Co., c/o Clerk, Pascagoula, widening, repairing S. Pascagoula St. from Polk St. to beach Front Hy., incl. repairing curb and gutter, concrete pavement, excavating and widening present curb and gutter Pascagoula St., $25,000.

Bids Asked October 5

Iowa—State Hy. Comn., Ames, grading U. S. 30 west of Missouri Valley between Sects. 17 and 20, Cincinnati Twp., P-614, Harrison Co.

N. Y., New York—President Bronx Boro, Bronx County Bldg., 851 Grand Concourse, sheet asphalt on concrete repaving Fox St., Timpson Pl., Bathgate Ave.

South Carolina—State Hy. Dpt., J. S. Williamson, ch. hy. comr., Columbia, bituminous surfacing 2.256 mi. State Route 703, Defense Access Project DA-WR-29-A(1), Docket 10,279, Charleston Co.

Bids Asked October 6

Pa., Phila.—City, Dpt. P. Wks., City Hall, grading, cement paving and imprvs. bituminous concrete paving, concrete guttering, dredging Schuylkill River above Fairmount Dam, Phila. Co.

Bids Asked October 7

Arizona—State Hy. Dpt., Phoenix, grading, draining, select material and plant mixed bituminous surface (MC-5) 0.4 mi. Cherry Ave. and Aviation Hy., DA-WR-38-A(1), A.F.E. 9876.

Bids Asked October 8

Ill., Carlinville—Macoupin Co., 10,206 cu. yd. gravel or crushed stone road, furnishing section and R.O.W. markers, etc. Over $25,000. W. Yowell, Carlinville, supt. Hys.

Bids Asked October 12

Indiana—State Hy. Comn., Samuel C. Hadden, chn., Indianapolis, sub-surface drainage 16.422 mi. S.R. 67 from Albany to S.R. 26 West of Portland, Delaware and Jay Counties; 15.288 mi. U. S. Rd. 24 from S.W. of Roanoke to Fort Wayne, Whitley Co. Plans deposit $2.75 for each project; 0.088 mi. drainage, S.R. 67 West of Brooklyn, Morgan Co.; 8.7 mi. erosion control, S.R. 57, northeast from S.R. 41, Vanderburgh Co., Plans deposit $1.75 for each project; 0.5 mi., S.R. 61, northwest from S.R. 241 and 4.137 mi. S.R. 241 from Monroe City to Wheatland and to approaches to Bridge 3438 over Pond Creek west of Wheatland, Knox Co.; 1.61 mi., U. S. Rd. 50 northeast from Hardinsburg, Dearborn Co., bituminous coated aggregate and concrete paving 2.092 mi. Scatterfield Rd. from S.R. 67 to S.R. 32 and 0.37 mi. concrete pavement 29 St. in Anderson from S.R. 9 to Madison Ave., Madison Co., Plans deposit $2.75 each project.

Bids Asked October 13

Utah, Salt Lake City—W. D. Beers, city engr., City and County Bldg., sidewalks, curbing, guttering in area bounded by 23 East St., Michigan Ave., Diestel Rd. and Sunnyside Ave.

Bids Asked October 14

California—State Div. Hys., State Bldg., Los Angeles, plant mix material and bituminous surface treating shoulders 1.6 mi. hy. between Santa Clara River Bridge and Santa Clara Ave., Ventura Co.; plant mix on untreated rock surfacing 1.4 mi. between Colorado St. and 0.1 mi. south of San Gabriel River, Los Angeles and Orange Counties. G. T. McCoy, Sacramento, **state hy. engr.**

Bids Asked

Maryland—State Rd. Comn., 108 E. Lexington St., Baltimore, rejected bids Aug. 31, imprv. 0.8 mi., Contr. A343-1-666, Alleghany Co. CD 8/25.

Wisconsin—State Hy. Comn., Madison, rejected **bids, shale** base course 5.0 mi. Jackson Co.

Sask., Eyebrow—Rural Municipality, c/o M. R. Peterman, reeve, Mawer, 60 mi. road construction.

LOW BIDDERS

California—State Div. Hys., Sacramento, Sept. 22, imprv. 1.2 mi., Placer Co., from A. Teichert & Son Inc., Box 1113, Sacramento, **$88,477.** CD 9/13.

†District of Columbia and **Maryland**—Pub. Roads Admin., 18 and F Sts. N.W., Wash., 25, D. C., Sept. 25, constructing D-1 military hy. from D. C., to Camp Springs, Prince Georges Co., Md., from Capital Excavating Co., 65 N. St. S.E., Wash., D. C., **$259,940.** CD 9/23.

Florida—State Rd. Dpt., Tallahassee, Sept. 21, strengthening 13 bridges, replacing 36 in. pipe culvert, Escambia and Santa Rosa Counties, from Coggin & Deermont, Chipley, **$172,891.** CD 9/15—ENR 9/23.

Idaho—State Dpt. P. Wks., Bureau Hys., Boise, Sept. 17, imprv. 11.378 mi. Clearwater Co., and furnishing crushed rock surfacing and cover material in stockpiles, Benewah and Kootenai Counties, from Colonial Constr. Co., 326 First Ave., Spokane, Wash., **$42,700** and **$43,120** respectively; imprv. 2.787 and 1.648 mi. Butte and Custer Counties from Western Constr. Co., Pocatello, **$75,173.**

Kan., Pomeroy—Wyandotte Co., R. Wheat, cha. Kansas City, Kan., Sept. 21, grading, graveling, etc. at Wyandotte County Lake, near here, from L. G. Barcus, 1051 State St., Kansas City, Kan. Est. approx. **$60,000.** CD 9/9—ENR 9/16.

Kentucky—State Hy. Dpt., Frankfort, Sept. 24, imprv. 3.447 mi. Madison Co., from O. V. Arnett, Berea, and R. R. Dawson, Bloomfield, **$151,536;** 0.195 mi. Perry Co., from R. R. Dawson, Bloomfield, **$41,278.** CD 9/3—ENR 9/9.

Michigan—State Hy. Dpt., Lansing, Sept. 22, grading, draining, 1.722 mi. DA-WI-81-69-C-1, Washtenaw Co., from Lewis & Frisinger, 214 E. Madison Ave., Ann Arbor, **$88,465***** 1.062 mi. AL-FAS-33-52C-1 on M-43, Ingham Co., from Walter H. Knapp, Box 593, Monroe, **$73,665***** bituminous concrete surfacing 0.256 mi. SN-U-FB11 of 82-22-10C-1, Wayne Co., from Julius Porath & Son Co., 702 Transportation Bldg., Detroit, **$26,983***** dual concrete paving 0.522 mi. and concrete curbing, sidewalks 0.32 mi. SN-F-82-73-C-5, SN-F-82-113-C-2, Wayne Co., from Taylor Bros. Co. Inc., 790 Haynes St., Birmingham. **$137,594.**

Tennessee—State Hy. Dpt., Nashville, Sept. 24, paving 12.724 mi. Bedford and Moore Counties, from H. E. Wolfe Const. Co., St. Augustine, Fla., **$392,541.** CD 9/7—ENR 9/9.

†Virginia—Pub. Roads Admin., 1440 Columbia Pike, Arlington, Sept. 20, constructing Project VA DA WR-8, Grading 17, War Department Bldg., Road Network, Arlington Co., from Virginia Paving Co., Arlington, **$134,565.** CD 9/10—ENR 9/16.

Virginia—State Hy. Dpt., Richmond, Sept. 23, imprv. 0.857 mi. Route 610, to **Sam Finley,** Inc., Roanoke, **$41,539;** 0.98 mi. Route 611, from Bero Engr. & Constr. Corp., 1069 Walden Ave., Buffalo, N. Y., and Langley Field, **$58,929,** both Elizabeth City Co. CD 9/16.

Washington—State Hy. Dpt., Olympia, Sept. 21, imprv. 7.5 mi. Jefferson Co., from R. E. Rus and G. F. Baird, Port Angeles, **$33,235.** CD 9/8.

PROPOSED WORK

Arizona—State Hy. Comn., Phoenix, imprv. 8 mi. Holbrook-Lupton Hy., to W. R. Skousen Contg. Co., 548 N. Grand St., Mesa, **$239,-800.** Bids 9/17. CD 9/8.

†California—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, road imprvs., Contr. 509-eng-5507, Riverside Co., to J. Wilcox, Huntington Park, **$10,000.**

Idaho—J. D. Wood, comr. P. Wks., Boise, roadbed, drainage structures plant mix bituminous surfacing 2.568 mi. access road, Proj. DA-WR-37 (1), Ada Co., to J. A. Terteling & Sons, Robert Noble Bldg., Boise, **$147,104.** Bids 9/14.

†Illinois—U. S. Eng., 816 U. S. Courthouse & Customhouse, St. Louis, 2, Mo., 6 in. compacted gravel surfacing, 8 mi. new road, and repairing 15 mi. road, Neg. No. 23-065-44-39, Sangamon Co., to Cameron, Joyce & Co., Keokuk, Ia. Est. under **$100,000.** Bids 9/17.

†Massachusetts—U. S. Eng., 31 St. James Ave., Boston, grading, roadwork, No. 19-023-44-NEG 63, to C. J. Maney Co., Inc., 74 Dane St., Somerville. Est. **$100,000-$500,000.**

Mass., Worcester—Norton Co., 1 New Bond St., grading, drainage, asphalt surfacing 5,300 ft. Shore Drive Rd. from Indian Lake to connect with D St. Exten. and Holden St., to Swanson-Janson Co., 91 Foster St. Est. **$40,000.**

†Nevada—U. S. Eng., 1209 8 St., Sacramento, 8, Calif., addnl. roads, Nye Co., to J. E. Haddock, Ltd., 3538 E. Foothill Blvd., Pasadena, Calif. Est. **$100,000.**

†Ohio—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., roads and parking areas, Contr. 36-058-eng-80, Cuyahoga Co., to Loesch & Green Constr. Co., 4311 W. 32 St., Cleveland, **$70,000.**

†Oklahoma—U. S. Eng., 416 Wright Bldg., Tulsa, Zone 2, asphalt paving driveways and parking areas, Oklahoma Co., to Ditmars-Dickmann Constr. Co., Muskogee, **$25,000.**

Pennsylvania—State Hy. Dpt., Harrisburg, Imprv. 0.86 mi. Philadelphia Co., to Berlanti Constr. Co., 15 Oakland Ave., Harrison, N. Y., **$26,655.** Bids 9/17, awarded 9/18. CD 9/9.

†Texas—U. S. Eng., 416 Wright Bldg., Tulsa, 2, Okla., surfacing motor pool yards, Sol. 957-Neg-44-53, Dallam Co., to Walton & Co., 506 National Reserve Bldg., Topeka, Kan., **$27,600.**

Washington—State Hy. Dpt., Olympia, Sept. 21, imprv. 0.29 mi. Kitsap Co., to N. Fiorito, 844 W. 48 St., Seattle, Zone 7, **$39,912.** Bids 9/21. CD 9/8.

†West Virginia—U. S. Eng., 925 New Federal Bldg., Pittsburgh, Pa., roads, shoulders, ditches, drainage, walks, Contr. 36-058-eng-90, Berkeley Co., to Walker Bros., Chambersburg, Pa., **$50,000.**

Wisconsin—State Hy. Comn., Madison, Imprv. 11.03 mi. Elroy-New Lisbon Rd., State Trunk Hy. 80, A.F.E. 29-06 and 2.56 mi. Elroy-Kendall Rd., State Trunk Hy. 71, A.F.E. 29-07, Juneau Co., to Arthur Overgaard, Cambridge, **$118,250.** Bids 9/24.

Alta., Edmonton—Provincial Govt., W. A. Fallow, minister P. Wks., reconstructing 16

STREETS, etc. (Contracts Awarded, Cont'd.)

mi. section Meridian hy. on Alberta-Saskatchewan border, day labor, **$40,000.** N. W. MacPherson, Dpt. P. Wks., engr.

Dpt., Brockville—Dpt. Natl. Defense (army), Ottawa, surfacing O.T. Unit, to H. J. McFarland Constr. Co. Ltd., Elizabeth St., Picton, **$75,000.**

Ont., Ottawa—Dpt. Natl. Defense (Army), Ottawa, roadways at Proving Ground, near here, to L. T. Martin, 519 Ottawa Electric Bldg., Sparks St., **$176,000.**

Ont., Ottawa—Dpt. Natl. Defense (Air), Ottawa, roads, sidewalks at R.C.A.F. Station Rockcliffe (Ottawa) to O'Learys' Ltd., 208 Laurier Ave. E., **$32,000.**

EARTHWORK, WATERWAYS

PROPOSED WORK

Ark., Blytheville—Drainage Dist. 17, B. A. Lynch, Blytheville, rejected bids Sept. 15, excavating 150,000 cu. yd. drainage ditches. Probably will readvertise. CD 9/9.

Ark., Brookland—Drainage Dist., c/o Oscar Robinson, Mack Heard & Tyner Futral, comrs., c/o county clk., Jonesboro, 2 ditches to drain 4,000 acres. $15,000.

Ark., Jonesboro—C. Freeze, judge, Jonesboro, 2 lateral drainage ditches.

La., Shreveport—Caddo Levee Dist. and Red River Bayou Pierre L. & D. Dist., Courthouse, levee work, 106,000 cu. yd. excav. on Prairie River Canal and Boggy Bayou. Over $15,000.

†Texas—U. S. Eng., 25 St. and Avenue F, Galveston, irrigation sys. revision, Hidalgo Co., to Mitchell Darby, Pharr, approx. $20,000.

Wash., Tacoma—A. M. Angove, clk. Bd. Contr. & Awards, City Hall, received no bids Sept. 13, piping, appurtenances for LaGrande powerhouse on 2nd Nisqually power development. Will readvertise. CD 9/8.

Ont., New Hamburg—Municipality, dredging Nith River. $25,000.

BIDS ASKED

Bids Asked October 7

Okla., Ponca City—L. A. Cann, city mgr. and C. F. Norton, clk., repairing dam, spillway. $167,246. Burns & McDonnell, 107 W. Linwood Blvd., Kansas City, Mo., engrs. CD 8/23—ENR 8/26.

Bids Asked October 11

New Jersey—Spencer Miller, Jr., comr. State Hy. Dpt., Trenton, 10,018 cu. yd. earth excav., at Jaqui Pond, Greystone Park, Morris Plains Boro, Morris Co. Plans deposit $10.

LOW BIDDERS

Ia., Clinton—Clinton Co., I. G. Wyatt, aud., outlet ditch, from C. Hansen, Calamus. $21,766. CD 7/7—ENR 7/15.

CONTRACTS AWARDED

†Arkansas—U. S. Eng., U. S. Post Office and Courthouse, Vicksburg, Miss., 327,000 cu. yd. levee work on south bank Arkansas River, No. 5, Jefferson Co., to S. Kraus, 649 Edmond Ave., St. Louis, Mo., **$82,297.**

†Calif., Oceanside—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., dredging, Camp Pendleton, NOY 7485, to Newport Dredging Co., Wilmington. CD 9/1—ENR 9/9.

†Missouri—U. S. Eng., 10 E. 17 St., Kansas City, Mo., excav., electrical sys. exten., temporary frame bldgs., etc., Contr. No. 23-028-Eng-59, Jefferson Barracks, to E. A. Brunson Constr. Co., 4052 Forest Park Bl., St. Louis, **$40,000.**

†New York—U. S. Eng., Chimes Bldg., Syracuse, addnl. flood protection facilities, Contr. 321-Eng-948, Albany Co., to A. S. Wikstrom, 113 Main St., Middlesex Boro, N. J., **$100,000.**

†S. C., Charleston—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., bulkhead exten., south of dry dock, NOY 6983, to The Loftis Co., The Citadel, Charleston, **$35,948.**

†Tennessee—U. S. Eng., West Memphis, Ark., approx. 132,000 cu. yd. earthwork, No. 40-041-44-20, Shelby Co., to C. J. List Constr. Co., Railway Exchange Bldg., Kansas City, Mo., approx. **$70,000.** Bids 9/17.

†Texas—U. S. Eng., 25 St. and Avenue F, Galveston, riprap paving at Barker Dam, Harris Co., to Fulton Constr. Co., 2201 Esperson Bldg., Houston, approx. **$100,000.** CD 9/20—ENR 9/23.

★**†Utah**—Bureau Reclamation, Dpt. Interior, Interior Bldg., 19 and C Sts. N.W., Wash., D. C., Scofield Dam Carbon Co., to W. W. Clyde & Co., Springville, **$503,000.** Bids 8/25. CD 7/7—ENR 7/15.

†Va., Norfolk—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., dredging, N.O.B., NOY 6102, to American Dredging Co., 12 S. 12 St., Phila., Pa.

†Washington—U. S. Eng., 800 3 Ave., Seattle, Zone 4, drainage facilities, King Co., to R. L. Moss & Co., Zenith, **$100,000.** CD 9/8—ENR 9/16.

N. S., Lunenberg—Dpt. P. Wks., Ottawa, Ont., dredging to Beacon Dredging Co., Ltd., Roy Bldg., Halifax, **$16,416.**

Ont., Cobourg—Dpt. P. Wks., Ottawa, dredging harbor, to McNamara Constr. Co., Ltd., 12 Industrial St., Leaside, **$41,730.** CD 8/27.

UNCLASSIFIED

PROPOSED WORK

†California—IMPROVEMENTS—Douglas Aircraft Co., 3000 Ocean Park Blvd., Santa Monica, imprvs. Over $40,000. Federally financed. Taylor & Taylor, 800 W. Third St., Los Angeles, archts.

†California — IMPROVEMENTS — Yards & Docks, Navy Dpt., 18 and Constitution Ave. N.W., Wash., D. C., engineering services by Hunt & Chambers, 816 W. Fifth St., Los Angeles, for NOY 4809, 5468, NAD Fallbrook, M.C. Training area, Santa Margarite, imprvs. NOY 7495.

†Calif., Alameda—IMPROVEMENTS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering-architectural services by E. J. Kump & Assoc., 251 Kearney St., San Francisco, imprvs., NAS, NOY 4165 and 5966, NOY 7559.

†Fla., Pensacola—IMPROVEMENTS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by Wm. A. Goff, 1411 Broad St. Station Bldg., Phila., Pa., for NOY 4130, 5915 and 6081, NAS, imprvs., NOY 7493.

★**Ia., West Liberty**—RAILROAD TRACK—Chicago, Rock Island & Pacific R. R., F. W. Thompson, ch. engr., La Salle St. Station, Chicago, Ill., relocating 12 mi. main line track, $1,500,000.

Louisiana — OIL PRODUCTION WELL — Texas Co., 919 St. Charles St., New Orleans, installing, maintaining drilling and boiler barges walkway, appurtenant structures, etc. for drilling exploratory well for oil production, State-Cote Blanche Island 5, West Cote Blanche Bay, about 12.5 mi. southwesterly from Jeanerette, St. Mary Parish.

Louisiana — OIL PRODUCTION WELL — Texas Co., 919 St. Charles St., New Orleans, dredging slip, installing drilling and boiler barges, 3,350 ft. pipelines, appurtenant structures for use in connection with drilling exploratory well for oil production, State-Dog Lake Well 13, in Hackberry Lake, Terrebonne Parish.

Louisiana—OIL WELL—Phillips Petroleum Co., Bartlesville, Okla., deep test oil well, Iberia Parish.

Louisiana—OIL WELL—Union Oil Pro. Co., Lake Charles, drilling, casing, developing deep test oil well, earthen storage, fuel line, building road, etc., Calcasieu Parish.

★**La., New Orleans** — IMPROVEMENTS — City, R. S. Maestri, mayor, $5,000,000 bond election Oct. 26, imprvs., bldgs., etc. D. O. Langstaff, City Dir. of Aviation. E. W. Jones, Jack J. H. Kissels & Sol Rosenthal, Barrone Bldg., New Orleans, archts.

†Mass., Lawrence—AIRPORT IMPROVEMENTS—Civil Aeronautics Admin., La Guardia Field, Jackson Heights, N. Y., airport imprvs.

Minnesota — RAILROAD — Northern Pump Co., c/o J. B. Hawley, pres., Fridley, bought Minneapolis, Anoka & Cuyana Range R. R. between Anoka and Minneapolis, and may rebuild entire road or make repairs.

★**Mont., Bozeman**—TUNNEL—Northern Pacific Ry. Co., B. Blum, ch. engr., 176 E. 6 St., St. Paul, Minn., tunnel, $1,000,000.

Neb., Chadron — IMPROVEMENTS — City, imprvs. $45,000.

†Okla., Shawnee—GASOLINE DISPENSING EQUIPMENT—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineer-architect services by A. C. Davis & Son, Shawnee, gasoline dispensing equip. Naval Auxiliary Base Field, NOY 7489.

★**Tenn., Memphis**—IMPROVEMENTS—City, c/o Comr. D. C. Miller, Court House, imprvs., addnl. facilities. $500,000.

★**Texas and West Virginia**—NATURAL GAS PIPELINE—Chicago Corp., 135 S. LaSalle St., Chicago, Ill., 1,200 mi. 16 in. natural gas pipeline carrier between Nueces Co., Tex. and Cornwell, W. Va. $47,500,000. Owner purchased Tennessee Gas & Transmission Co., Chattanooga Bank Bldg., Chattanooga, Tenn. CD 9/9—ENR 9/16.

†Texas—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, 2, Okla., imprvs., bldgs., Sol. 957-Neg-44-76, Dallam Co.

Texas—OIL WELL, etc.—Beacon Oil & Refining Co., Henderson, drilling, casing, developing several oil wells, earthen pits, pipeline, etc. Over $25,000.

Texas—OIL WELL—Grimes, Russell, et al., Esperson Bldg., Houston, deep woodbine oil well, earthen pits, fuel lines, etc.

Texas—OIL WELL—Humble Oil & Refining Co. and Houston Farms Development Co., Humble Bldg., Houston, drilling, casing, developing oil well. $25,000.

Texas—OIL WELL, etc.—Humble Oil & Refining Co., Humble Bldg., Houston, drilling, developing new 10,000 ft. test oil well, earthern tanks, fuel lines, etc., Shafter Lake area, Andrews Co. $25,000.

Texas—OIL WELL—Kirby Petro et al., Commerce Bldg., Houston, casing, developing oil well.

Tex., Abilene—OIL WELL—B & et al, drilling, casing, developing test oil well.

Tex., Albany—OIL WELL—Ocean Hull, Albany, 1,750 ft. test oil well, storage, etc.

Tex., Alice—OIL WELL—Brown Corpus Christi, drilling, casing, new 4,530 ft. oil well.

Tex., Alice—OIL WELL—Sam D Driscoll Bldg., Corpus Christi, drilling, developing oil well.

Tex., Altair—OIL WELL—Shell Co., Deere Park Houston, drilling, ing deep test oil well.

Tex., Andrews—OIL WELL—et al, Midland, drilling, casing, new 7,500 ft. oil well test, earthern lines, etc.

Tex., Andrews—OIL WELL—Mc Oil Co., Midcontinent Bldg., Fort drilling, developing new deep test

Tex., Annona—OIL WELL—The 1700 San Jacinto, Houston, develop new test oil well.

Tex., Anson—OIL WELL—Merry Perent, Alder Oil Co., Oil & Gas Bldg ton, drilling, casing, developing deep well.

Tex., Bellevue—OIL WELL—Shell Deere Park, Houston, drilling, casing oping 6,400 ft. test oil well, earthern

Tex., Calvert—OIL WELL—A. G. H Calvert, 10,000 ft. oil well, casing, a line, etc.

Tex., Carthage—OIL WELL, etc Lacy, Longview, drilling 8 in. casing ing 9,000 ft. test oil well, earthern lines, etc.

Tex., Clareville—OIL WELL—W. E & Associates, Milam Bldg., San Antonio ing, casing, developing another deep well, earthern storage, fuel line, etc.

Tex., Clodine—OIL WELL—Provid Co., Gulf Bldg., Houston, drilling, ca veloping two 7,600 ft. oil wells, $40,0

Tex., Colorado City—OIL WELL Shamrock Oil & Gas Co., Colorado City ing, casing, developing new 3,500 ft well, earthern storage, fuel line, etc.

Tex., Columbus—OIL WELL, etc Frazier, J. Mayo and Cities Service Esperson Bldg., Houston, drilling, ca veloping another deep test oil well, a supply well, etc. $25,000.

Tex., Crowell—OIL WELL—Texas San Jacinto St., Houston, drilling, de new 6,000 ft. test oil well.

†Tex., Denton—AIRPORT—Civil tics Admin., Electric Bldg., Fort Wo port. $300,000. CD 10/5/42—ENR

Tex., Eldorado—OIL WELL—Gl Refining Co., drilling, casing, develo test oil well, earthern pits, etc., 12 mi here.

Tex., Encino—OIL WELLS—Sun 1st National Bank Bldg., Dallas, developing 2 new 6,000 ft. test oil w

Tex., Falfurrias—OIL WELL, et ern Minerals Corp., Corpus Christi casing, developing, 7,000 ft. test earthern pits, fuel line, etc.

Tex., Ft. Griffin—OIL WELL—Ha & Associates, Albany, drilling, casing ing new deep test oil well, earthern line, etc.

Tex., Freer—OIL WELL—Ogden San Diego, developing new deep test water well, fuel line, etc. $25,000.

Tex., Ganado—OIL WELL, etc.—Hu & Refining Co., Humble Bldg., Hous ft., test oil well, earthern storage,

Tex., Garden City—OIL WELL— Ranch Co., Crane, and J. W. Em Angelo, drilling, casing, developing lime test oil well.

Tex., Garwood—OIL WELL—Cities Oil Co., M. Esperson Bldg., Houston, casing, developing 10,500 ft. oil well

Tex., Gause—OIL WELL—Standard of Texas, Petroleum Bldg., Houston, 8 in. casing, developing new 8,000 ft. well. $25,000.

Tex., Girvin—OIL WELL—Globe Oil Company, Pecos, drilling, developing

Tex., Goldsmith—OIL WELL, etc.—G Hunter Corp., Abilene, drilling, dev 4,800 ft. test oil well, earthern pits line, etc.

Tex., Henderson—OIL WELL—Beacon Refining Co., Henderson, drilling, casi veloping oil well, earthen storage, fue etc. $50,000.

Tex., Jermyn—OIL WELL—Texas Si —Hanlon-Buchanan, Petroleum Bldg., ton, developing 6,000 ft. oil well, storage, etc. $25,000.

Tex., Katy—OIL WELL—Stanolind Gas Co., Fair Bldg., Fort Worth, drilling veloping 7,400 ft. test oil well.

Tex., Kemp—OIL WELL, etc.—A. Gee, et al, Kaufman, test oil well, fra earthern pits, etc.

TED (Proposed Work, Cont'd.)

...elland—OIL WELL—Brown & ... Fort Worth Nat'l. Bank Bldg., ... 6,300 ft. test oil well, storage ... $25,000.

...—OIL WELL—Chas. E. Fraser, ... Life Bldg., Dallas, 5,300 ft. ro... oil well.

...kins—OIL WELL—G. E. Kadane ...ber City, drilling, developing 4,500 ...pe oil well, earthen pits, etc.

...idad—OIL WELL, etc.—Humble ...ing Co., Humble Bldg., Houston, ... oil well, earthern storage, fuel

...rilla—OIL WELL—Grimes, Rus... Petroleum Bldg., Houston, drill... developing new deep test oil ...00.

...Arthur—TANK CAR LOADING ... etc.—The Texas Co., 1700 San ... Houston, addnl. tank car loading ... pipelines. $90,000.

...llos—OIL WELL, etc.—F. & G. ...n Diego, 3,500 ft. test oil well, ...tc. Over $25,000.

...s Prairie—OIL WELL—Hooser & ...orsicana, drilling, developing oil ...00.

...ge—OIL WELL—Arkansas Fuel ...erson Bldg., Houston, developing ...ll.

...Jo—Conoco Oil Co., 3601 McKin... ...ston, drilling, developing oil well.

...pherd—OIL WELL—Navarro Oil ... Cleveland, drilling, developing ...t. test oil well.

...—OIL WELL, etc.—Humble Oil ...Co., Humble Bldg., Houston, drill... developing new deep test oil well, ...s fuel line, etc.

...t—OIL WELL—Texas Conserva... Corpus Christi, drilling, casing, ...,400 ft. oil well, storage, fuel

...er—OIL WELL—Phillips Petro... ...artlesville, Okla., casing, develop... ...st oil well, fuel line, etc.

...derbilt—OIL WELL—Seaport Oil ...Corpus Christi, casing, developing ... well, earthern storage, etc.

...oria—OIL WELL—Barnsdall Oil ...on Bldg., Houston, drilling, de... ...6,000 ft. test oil well.

...hita Falls—OIL WELLS—Col-Tex ...., et al, Wichita Falls, drilling, ...4 deep test oil wells.

...ata—OIL WELL—Venture Petro... ...t al., Laredo, drilling, developing ...est oil well.

...pelier—AIRPORT—Civil Aeronau... ...a, La Guardia Field, Jackson ...Y., airport imprvs.

...ton — COAL UNLOADING ...U. S. Eng., 800 3 Ave., Seattle, ...al unloading trestle, Neg. 734,

...ton — CONSTRUCTION — U. S. ... Ave., Seattle, Zone 4, construc... ...776. King Co.

...ton — IMPROVEMENTS — U. S. ... Ave., Seattle, Zone 4, imprvs., ...acific Co.

...ton — IMPROVEMENTS — U. S. ... Ave., Seattle, Zone 4, imprvs., ...Thurston Co.

...ton—INSULATION—U. S. Eng., ... Seattle, Zone 4, installing insula... ...ation 789, Grant Co.

...ton—TUG and BARGE MOORAGE ...800 3 Ave., Seattle, Zone 4, tug ...moorage, Neg. 771, King Co.

...rta—IMPROVEMENTS—City, im... ... Bergman, city engr.

...—IMPROVEMENTS—U. S. Eng., ...n St., Omaha, Neb., imprvs., ob... ...wers, gasoline and distillate stor... ...nd generator houses, Natrona Co. ...00.

...Columbia — IMPROVEMENTS — ...19041 102 St., Edmonton, Alta.,

...naimo—WHARF and FLOAT— ... Shipbuilding Co., Ltd., Nanaimo, ...ost, $40,000.

...ancouver—IMPROVEMENTS—Do... ..., Ottawa, Ont., developing imprvs. ...ort, Ottawa, Ont., engrs.

...ncouver—PLAYGROUNDS, etc.— ... playgrounds and outdoors sports ... acre site, Western end Musqueam ...rve. $50,000. Parks Bd., City

...int John—RAILWAY, etc.—Do... ..., Ottawa, Ont., marine railway, ...t area, $75,000; rifle range and ... dome for merchant navy ... mooring buoys in harbor, $60,... Naval Services, Cartier Sq., Ot... engrs.

...ourg—LANDING FIELD—Munici... ...ng field. $70,000.

...erloo—BURIAL VAULT—Ceme... Park Bd., chapel burial vault at Mount Hope Cemetery. About $75,000.

Que., Dorval — IMPROVEMENTS — Dpt. Transport, Ottawa, Ont., imprvs. storehouse. $200,000.

Que., Quebec City—LIGHTING SYSTEM—F. X. Chouinard, municipality clk., Quebec City, imprv. lighting sys. $50,000, E. Hamel, City Hall, engr.

Que., Three Rivers—TRACKAGE—Canadian Pacific R.R., J.E.6, Armstrong, ch. engr., Windsor Station, Montreal, centralization and modernization trackage within town limits.

Que., Verdun—PLAYGROUND and PARK—J. R. French, municipality mgr., City Hall, park and playground. $60,000. H. Hadley, City Hall, engr. CD 9/3/42—ENR 9/10/42.

BIDS ASKED

Bids Asked after October 1

Louisiana—GAS PIPELINE—United Gas & Pipe Line Co., Gas Bldg., Shreveport, 18 mi. 6 in. loop natural gas pipeline, La Fourche and St. Charles Parishes; several miles 4½ in. natural gas mains, Houma, Terrebonne Parish. Each over $25,000.

Louisiana—PIPELINE CARRIER—United Gas Pipe Line Co., c/o Gas Bldg., Shreveport, 9 mi. 12¾ in. gas pipeline carrier, Caddo Parish area. Over $25,000.

Mississippi—GAS PIPELINE CARRIER—United Gas Pipe Line Co., Gas Bldg., Shreveport, La., 30½ mi. 18, gas pipeline carrier. Over $25,000.

Bids Asked October 4

Alta., Shepard — IMPROVEMENTS — Secy. Dpt. Munitions & Supply, Ottawa, Ont., imprvs., for Dominion Govt., Ottawa, Ont. Dpt. National Defense for Air, Lisgar Bldg., Ottawa, Ont., archts.

Bids Asked October 6

†**South Carolina**—IMPROVEMENTS—U. S. Eng., Fort Jackson 33 Customhouse, Charleston, imprvs., addnl. bldgs., Greenville Co., Plans deposit $25.

Bids Asked October 12

★†**Wis., LaCrosse**—AIRPORT—Civil Aeronautics Admin., 608 S. Dearborn St., Chicago, Ill., airport, incl. clearing, grubbing, grading, paving, 24 in. diam. storm sewer, etc. To exceed $600,000. Plans deposit $25. Extended date. CD 8/18—ENR 8/26.

Bids Asked after October 15

†**W. Va., Martinsburg** — AIRPORT IMPROVEMENTS—Civil Aeronautics Admin., La Guardia Field, Jackson Heights, N. Y., airport imprvs.

Bids Asked October 20

B. C., Alert Bay—MOORING FLOATS, etc.—Ch. ref. Forester, Provincial Govt., Victoria, mooring floats, gangways and approaches, $50,000. Plans deposit $10. Dpt. Lands & Forests, Victoria, engr. CD 8/25.

Bids Asked about October 29

†**Texas**—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F Galveston, Imprvs., Sol. 359-44-C41, Matagorda Co.

Bids Asked

Conn., Hartford—PLATFORMS—New York, New Haven & Hartford R. R. Co., E. E. Oviatt, ch. engr., Water St., New Haven, (selected bidders), timber platforms for loading facilities, Hartford Yards. $30,000.

Mass., Haverhill—RAIL SALVAGE—City Engineer, City Hall, rail salvage, removing steel car rails, certain streets, $80,000. Morse Dickinson & Goodwin, 25 Washington Sq., engrs. CD 8/39—ENR 9/2.

LOW BIDDERS

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, imprvs., No. 196, Kern Co., from M. J. Ruddy & Son, P. O. Box 1122, Modesto, **$200,000-$300,000.**

★†**Calif., Alturas**—AIRPORT—Civil Aeronautics Admin., 1500 4 St., Santa Monica, Sept. 20, airport, Proposal N64-85, Schedule 1, from Kuckenberg Constr. Co., 11,104 N.E. Holman, Portland, Ore., **$1,281,419;** Schedule 2, from Larson Bros. & Harms Bros., Stockton Blvd., Sacramento, **$554,226.** CD 8/31—ENR 9/2.

†**Calif., Little River**—AIRPORT—Civil Aeronautics Admin., 1500 4 St., Santa Monica, Sept. 18, airport, Proposal N64-69, from A. Teichert & Co., 1843-37 St., Sacramento, **$455,666.**

†**Louisiana**—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F, Galveston, Tex., Sept. 22, Sollc. 359-44-C35, imprvs., Orleans Parish, from R. F. Farnsworth & Co., Inc., 1515 S. Salcedo St., New Orleans, under **$100,000.** CD 9/16.

†**Me., Portland** — CLEARING, etc. — Civil Aeronautics Admin., La Guardia Field, Jackson Heights, N. Y., Sept. 20, clearing, grading, draining, paving, Proj. No. 14-249, from Bayer & Mingella Contr. Co., Inc., 10 Peabody St., Worcester, Mass., **$58,769.** CD 9/10—ENR 9/16.

†**Maryland**—AMPHITHEATRE—U. S. Eng., Standard Oil Bldg., Baltimore, Sept. 20, amphitheatre, Anne Aundel Co., from Consolidated Engr. Co., 20 E. Franklin St., Baltimore.

★†**N. M., Artesia** — AIRPORT — Civil Aeronautics Admin., P. O. Box 1689, Fort Worth, Tex. Sept. 15, Schedule 1, grading, drainage, airport, from Brazos Valley Constr. Co., 607 Myrick Bldg., Lubbock, Tex., **$347,707;** Schedule 2, concrete paving, from J. W. Craig Co., 1814 California St., Minneapolis, Minn., **$340,025.** CD 9/8.

★**New York** — TRANSIT FACILITY CHANGES—Bd. Transportation, 250 Hudson St., New York, Sept. 21, changes in transit facilities for imprv. Brooklyn Bridge and approaches in Manhattan and Brooklyn Boros, from E. W. Foley, Inc., 16 COURT St., Brooklyn, **$700,000.** CD 9/2—ENR 9/9.

N. Y., Jackson Heights—LOADING PLATFORM REPAIRS, etc.—Comr. Marine & Aviation, Pier A, foot of Battery Pl., North River, New York, Sept. 20, repairing loading platforms, enclosures and equip. at Land Plane Admin. Bldg., New York Municipal Airport, LaGuardia Field, Queens Boro, Contr. 2388, from J. J. Secoles, Inc., 274 Madison Ave., New York, **$101,000.** CD 9/14—ENR 9/16.

†**Pa., Johnstown** — AIRPORT IMPROVEMENTS — Civil Aeronautics Admin., La Guardia Field, Jackson Heights, N. Y., Sept. 22, paving airport runway, Proposal 14-250, Sched. 1, from Allegheny Asphalt Co., 411 Blvd. of Allies, Pittsburgh, **$411,649;** Sched. 2, from Grandview Co., 6 Grandview Ave., Mt. Vernon, N. Y., **$423,090.** CD 9/14—ENR 9/16.

†**Texas**—IMPROVEMENTS—U. S. Eng., 25 St. and Avenue F, Galveston, imprvs., clearing, grubbing, scraping, blading and rolling, etc., Sol. No. 359-44-C38, Travis Co., from Collins & Bland Constr. Co., P. O. Box 1192, Austin, **$43,800.**

†**Wash., Yakima**—IMPROVEMENTS—Civil Aeronautics Admin., Smith Tower Annex, Seattle, Zone 4, Sept. 16, imprvs., draining, surfacing, from S. Birch & Sons Constr. Co., Ford Bldg., Great Falls, Mont., **$111,214.** CD 9/8—ENR 9/16.

CONTRACTS AWARDED

†**Alabama**—RUNWAY DRAINAGE, etc.—U. S. Eng., Grant St. west of Westwood St., Mobile, drainage for runways, taxiways, Contr. 569-eng-5322, Jefferson Co., to Wright Contg. Co., Columbus, Ga., **$200,000.**

†**Alabama**—WALLS—U. S. Eng., Grant St., west of Westwood St., Mobile, walls, Contr. 569-eng-5324, Mobile Co., to Algernon Blair, Inc., First National Bank Bldg., Montgomery, **$100,000.**

†**Arizona**—DUST CONTROL—U. S. Eng., 751 S. Figueroa St., Los Angeles, 14, Calif., dust control, Contr. 569-eng-5339, Yuma Co., to Travis Constr. Co., 1081 Westwood Bl., Los Angeles, Calif., **$40,000.**

★†**Arizona**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, 14, Calif., imprvs., addnl. bldgs., to Del E. Webb Constr. Co., S. 23 Ave., Phoenix, **$500,000;** pistol and skeet ranges, to Morrison-Knudsen Co., 511 W. 5 St., Los Angeles, Calif., **$200,000,** both Yuma Co. Awarded 9/10.

†**Arkansas** — OBSTRUCTION REMOVAL — U. S. Eng., 300 Bway., Little Rock, obstruction removal, No. 38, Jackson Co., to Markham & Brown, Cape Giradeau, Mo., under **$100,000.** Awarded 9/9.

†**California**—FACILITIES—U. S. Eng., 74 New Montgomery St., San Francisco, facilities, Contr. 04-203-Eng-152, Alameda Co., to J. Strizek, 1916 Broadway, Oakland, **$40,000.**

†**California**—IMPROVEMENTS—U. S. Eng., 751 S. Figueroa St., Los Angeles, Zone 14, imprvs., drainage facilities, dust control, No. 195, Los Angeles Co., to R. R. Hensler, 228 Vallejo Dr., Glendale, **$20,000-$30,000.**

†**Connecticut**—FIRE MOUND—U. S. Eng., Industrial Trust Bldg., Providence, fire mound, No. 44-26, New London Co., to Henley Lundgren Co., 524 River St., Mattapan, Mass. Est. under **$50,000.**

†**Fla., Jacksonville** — IMPROVEMENTS — Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., completion of work, imprvs., on NOY 5947, Naval Air Station, NOY 6980, to G. D. Auchter Co., foot of E. Adams St. CD 8/31—ENR 9/2.

†**Georgia**—TAXIWAYS—U. S. Eng., Grant St. west of Westwood St., Mobile, Ala., taxiways, Contr. 569-Eng-5334, Decatur Co., to A. L. Crow Constr. Co., 111 S. 41 St., Birmingham, Ala., **$80,000.**

★†**Iowa** — IMPROVEMENTS — U. S. Eng., 1709 Jackson St., Omaha, Neb., imprvs., bldgs., Page Co., to Olson Constr. Co., W. J. Assenmacher Co., and Ernest Rokahr & Sons, 1018 Terminal Bldg., Lincoln, Neb., under **$1,000,000;** outside utilities, Page Co., to McGough Bros., 1954 University St., St. Paul, Minn., under **$500,000.**

†**Ia., Ottumwa**—IMPROVEMENTS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., completion of work, imprvs., begun on NOY 5710, NAS, NOY 7597, to George Sollitt Constr. Co., 109 N. Dearborn St., Chicago, Ill. Additional to CD 11/10—ENR 11/12, under CA.

†**La., New Orleans**—FISHING and DEPERMING SLIP—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., fishing and deperming slip, NOY 7260, to J. Riess, Carondelet Bldg., New Orleans, **$35,200.**

†**Maine**—GRADING, etc.—U. S. Eng., 21 St. James Ave., Boston, Mass., grading, planting, No. 19-023-44-Neg-55, to H. L. Frost & Higgins Co., 20 Mill St., Arlington, Mass. Est. under **$50,000.** CD 9/21—ENR 9/23.

UNCLASSIFIED (Contracts Awarded, Cont'd.)

†**Massachusetts**—GRADING—U. S. Eng., 31 St. James Ave., Boston, grading, RN44-9, Suffolk Co., to M. De Matteo Constr. Co., 71 Blue Hills Pkway, Milton. Est. **$100,000-$500,000.**

†**Massachusetts**—IMPROVEMENTS — Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., imprvs., repairing, Spec. 11815, to V. Barletta Co., 10 Whipple Ave., Roslindale. Bids 9/10.

†**Massachusetts**—SHIPYARD BLDG.—Bethlehem Hingham Shipyard, Inc., East Howard St., Quincy, brick termination bldg., to McCutcheon Co., 250 Stuart St., Boston. Federally financed. Bids 8/31.

Mass., Boston—ARENA IMPROVEMENTS—Boston & Maine R. R. Co., T. G. Sughrue, ch. engr., 150 Causeway St., Boston, drainage and electric grid, arena floor work, Boston Gardens, to J. F. Fitzgerald Constr. Co., 214 Essex St. **$32,000.**

†**Mass., Boston**—FIRE PROTECTION FACILITIES—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., fire protection facilities at N T S, Hotel Victoria, NOY 6202, to John F. Griffen Co., 238 Main St., Cambridge. **$29,733.**

†**Minnesota**—FACILITIES—U. S. Eng., 1709 Jackson St., Omaha, Neb., facilities, Contr. 25-066-Eng-107, Ramsey Co., to Hansen & Purtell, St. Paul, Minn., **$300,000.**

†**Mississippi** — IMPROVEMENTS — U. S. Eng., Grant St. west of Westwood St., Mobile, Ala., imprvs., Inv. 569-44-46, Hinds Co., to W. J. Runyan, Jackson, under **$50,000.** Bids 9/16, awarded 9/18. CD 8/24—ENR 8/26.

†**Missouri**—IMPROVEMENTS—U. S. Eng., 10 E. 17 St., Kansas City, Mo., imprvs., bldg., Newton Co., to B & G Constr. Co., Carthage. Est. under **$50,000.**

†**Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs., gravel surfacing, Fillmore Co., to Inland Const. Co., 46 and Leavenworth Sts., Omaha. Est. under **$50,000.**

†**Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs., Thayer Co., to Napier Associates, c/o N. S. Air Corps Area Eng., Fairmont. Est. under **$50,000.**

†**Nebraska**—IMPROVEMENTS—U. S. Eng., 1709 Jackson St., Omaha, imprvs., bldgs., Scotts Bluff Co., to Korshoj-Beckenhauser Constr. Co., Blair, **$100,000.** CD 8/31—ENR 9/2.

†**Nebraska**—ROOF FRAMING, etc.—U. S. Eng., 1709 Jackson St., Omaha, erecting roof framing and trusses, Contr. 25-066-Eng-113, Sarpy Co., to Paxton & Vierling Iron Works, 5 St., Avenue H, Carter Lake, Omaha, **$60,000.**

†**New Jersey**—CONTROL TOWER—Curtiss-Wright Corp., Fairfield Rd., Caldwell, air traffic control tower, to John W. Ryan Const. Co., 369 Lexington Ave., New York, N. Y., **$28,000.** Federally financed. CD 9/20—ENR 9/23.

†**N. J., Atlantic City**—HANGAR HEATING EQUIPMENT—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., heating equip. for hangars, N A S NOY 6510, to E. J. Wohrle, Inc., 427 Palisade Ave., Cliffside Park, **$77,128.**

N. J., Port Reading—TIMBER TRESTLE COAL PIERS, etc.—Reading Co., 12 and Market Sts., Phila., Pa., timber trestle coal piers, new footings for piers, repairing piles, to Spearin, Preston & Burrows, 50 Church St., New York, N. Y., **$73,450.**

†**New Mexico**—GASOLINE FACILITIES—U. S. Eng., Comm. Bldg., Albuquerque, relocating gasoline facilities, Contr. 29-005-Eng-43, Otero Co., to R. H. Fulton & Co., Lubbock, Tex., **$30,000.** CD 5/7—ENR 5/13.

†**New York**—FACILITIES, etc.—U. S. Eng., 120 Wall St., Zone 5, New York, facilities, Contr. 30-075-Eng-114, to Brennan & Sloan, Inc., 101 Park Ave., New York, **$30.000;** miscellaneous construction, Contr. 30-075-Eng-117, to Cooper Contracting Co., Inc., 15 E. 40 St., New York, **$50,000,** all foregoing in Nassau Co.

†**Ohio** — RAILROAD TRACKS, etc. — U. S. Eng., Dayton, railroad tracks, addnl. housing, Contr. 33-046-eng-21, Montgomery Co., to A. Farnell Blair, Decatur, Ga., **$30,000.**

†**Ohio**—PARKING LOT—U. S. Eng., Dayton, parking lot, Contr. 33-046-Eng-22, Montgomery Co., to Burch Constr. Co., 119 E. Washington Ave., Madison, Wis., **$100 000.**

†**Ohio**—SPRINKLER ALARM SYSTEM, etc.—U. S. Eng., 700 Union Guardian Bldg., Detroit, 31, Mich., sprinkler alarm sys. and electrical work, Cuyahoga Co., to G. Hirsch, 310 W. Broad St., Columbus, less than **$1,000,000.**

†**Oklahoma**—FACILITIES—U. S. Eng., 231 W. Main St., Denison, Tex., facilities, Contr. 257-eng-2511, Comanche Co., to Bowers & Lundgren, Topeka, Kan., **$30,000.**

†**Oklahoma**—FACILITIES—U. S. Eng., 231 W. Main St., Denison, Tex., addnl. facilities, Contr. 257-eng-2503, Grady Co., to Bowers & Lundgren, Topeka, Kan., **$70,000.**

†**Oklahoma**—FILTERED AIR SYSTEM—U. S. Eng., 416 Wright Bldg., Tulsa, Zone 2, filtered air sys. expansion, Oklahoma Co., to Harmon Constr Co., Box 1414, Oklahoma City, **$25,000.**

†**Oklahoma**—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, Zone 2, imprvs., range facilities, Sol. 957, neg-44-42, Muskogee Co., to **A. J. Spicer,** Box 322, Oklahoma City, **$36,000.** CD 8/20—ENR 8/26.

★†**Oregon**—AIR FORCE INSTALLATION—U. S. Eng., Pittock Blk., Portland, construction work at Army Air Force installation, Jefferson Co., to Morrison-Knudsen Co., Inc., 411 W. 5 St., and Ford J. Twaits Co., 451 S. Boylston St., Los Angeles, to exceed **$1,000,000.**

†**Pa., Phila.** — FIELD DEVELOPMENT — Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., developing Mustin Field, N A M C, Navy Yard, NOY 6996, to McNichol Paving & Constr. Co., 1923 Cherry St., **$352,080.**

†**Texas**— IMPROVEMENTS — Defense Plant Corp., 514 Alamo National Bldg., San Antonio, imprvs., asphalt on caliche paving, etc., to Colglazier & Hoff, 326 Seguin Rd., San Antonio, **$25,000,** cost plus fixed fee basis.

†**Texas**—IMPROVEMENTS—U. S. Eng., 416 Wright Bldg., Tulsa, 2, Okla., imprvs., bldg., Sol. 957-neg-44-53, Dallam Co., to Hoke Constr. Co., 218 W. 9 St., Stillwater, Okla., **$32,000.**

†**Texas** — IMPROVEMENTS — U. S. Eng., 416 Wright Bldg., Tulsa, 2, Okla., imprvs., addnl. construction, Dallam Co., to Walton & Co., 506 Natl. Reserve Bldg., Topeka, Kan., **$159,000.**

†**Texas**—IMPROVEMESTS—U. S. Eng., 25 St. and Avenue F, Galveston, imprvs., bldg., Sol. 359-44-C36, Galveston Co., to Noser Constr. Co., McAllen, approx. **$300,000.**

†**Texas**—IMPROVEMENTS—U. S. Eng., 231 W. Main St., Denison, imprvs., addnl. construction, Tarrant Co., to Ben Sira & Co., 3901 Elm St., Dallas, **$48,000.**

Texas—OIL PIPELINE—Humble Oil & Refining Co., Humble Bldg., Houston, laying 14 mi. 4 in. crude oil pipeline between Kemper Station and Barnhardt Field, force account, **$35,000.** CD 9/22.

†**Texas**—STORAGE FACILITIES, etc.—U. S. Eng., Fort Sam Houston, storage facilities, drainage, paving, Brown Co., to Yarbrough Constr. Co., 1410 Navasota St., Austin, **$68,000.**

Tex., Big Spring—OIL WELL—J. B. Hawley, Jr., 912 College St., Fort Worth, drilling, casing, developing three 3,200 ft. oil well tests, to Rhodes Drilling Co., Abilene, **$25,000.** CD 9/14—ENR 9/14.

Tex., Ezzell—OIL WELL—Humble Oil & Refining Co., Humble Bldg., Houston, drilling, developing 9,500 ft. oil well, to Brewster Bartle Drilling Co., Esperson Bldg., Houston, approx. **$25,000.**

Tex., Marshall—OIL WELL, etc.—Mae Belcher & Associates, 3510 Fairmount St., Dallas, drilling, 8 in. casing-cemented, developing new deep test oil well, earthen pits, etc., to T. J. Conway, Kilgore, approx. **$25,000.**

†**Utah** — IMPROVEMENTS — U. S. Eng., 32 Exchange Pl., Salt Lake City, imprvs., bldgs., Tooele Co., to Harrison-Dorman Co., 202 Interurban Bldg., Salt Lake City, approx. **$86,000.** Bids 9/15.

†**Virginia**—FACILITIES—U. S. Eng., Fort Norfolk, Norfolk, facilities, Contr. 616-Eng-2630, Norfolk Co., to States Contr. Co., Newport News, **$50,000.**

†**Va., Norfolk**—IMPROVEMENTS—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., imprvs., combined dispensary for Camp Bradford and Little Creek, near here, NOY 6170, to Virginia Engineering Co., Melson Bldg., Newport News, **$430,000.** CD 9/2.

†**Va., Quantico**—ELECTRIC DISTRIBUTION SYSTEM—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., electric distr. sys. exten., Marine Barracks, NOY 7048, to C. E. Ernst, Inc., 1622 14 St. N.W., Wash., D. C., **$28,550.**

†**Washington** — CONSTRUCTION — U. S. Eng., 820 3 Ave., Seattle, Zone 4, addnl. construction, Snohomish Co., to A. Osberg, 502 N. 62 St., Seattle, Zone 3, **$90,000.**

†**Washington**—HEATING SYSTEM—U. S. Eng., 800 3 Ave., Seattle, Zone 4, exten. heating sys., Spokane Co., to C. M. Ludberg, W326 1 Ave., Spokane, **$30,000.**

†**Wash., Manchester**—DIESEL and FUEL OIL PUMPING SYSTEM—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., diesel and fuel oil emergency pump. sys., Naval Station, Middle and Oakland Pts., NOY 6105, to M. P. Butler, 3419 13 St. S.W., Seattle, **$81,200.**

B. C., Powell River—WHARF—Powell River Co. Ltd., 1204 Standard Bank Bldg., Vancouver, wharf reconstruction, day labor. **$35,000.**

★**B. C., Prince George**—IMPROVEMENTS, etc.—Dpt. Transport, Ottawa, Ont., addnl. development imprvs., clearing, smoothing and rolling, grading, fencing, taxi strip, parking area, etc., and water supply main, to Carter-Halls-Aldinger Co. Ltd., Royal Bank Bldg., Winnipeg, Man., about **$662,000.**

B. C., Victoria—WHARF—Victoria Machinery Depot Co. Ltd., 343 Bay St., wharf reconstruction, day labor. **$25,000.**

N. S., North Sydney—WHARF—Dpt. P. Wks., Ottawa, Ont., imprv. railway wharf, to T. C. Gorman, Nova Scotia, Ltd., Roy Bldg., Barrington St., Halifax, **$356.760.** CD 7/30—ENR 8/5.

N. S., Wedgeport — WHARF — contractor, wha... construction, ... storage of kelp and processing ... Babin, Dog Island, Wedgeport.

Ont., Alliston — IMPROVEMENTS — Transport, Ottawa, imprvs., clearing, grading, ... smoothing, ... drainage, road gravel, etc., to ... Bros. Constr. Co., Brampton. ... Est. about $38,000. CD 8/18.

Ont., Copper Cliff—DAM—... Ltd., dam reconstruction on ... day labor. $25,000.

Ont., Goderich — IMPROVEMENTS — National Defense (Air), Ottawa, ... surfacing roadways, and parade ... E.P.T. School 12 ... to Johnson Bros. Ltd., 43 Market St., Brantford, ... CD 9/30/42—ENR 10/8/42.

Ont., Kapuskasing — IMPROVEMENTS — Dpt. Transport, Ottawa, imprvs., ... smoothing, rolling, drainage, ... to F. H. Scott Contr., Ltd., ... $282,000. CD 8/6—ENR 8/12.

Que., Port Alfred—DAM—Consolidated Paper Corp. Ltd., Sun Life Bldg., Montreal, ... constructing dam on Ha Ha River, ... $25,000.

Sask., Brora — IMPROVEMENTS — Dpt. Transport, Ottawa, Ont., imprvs., ... smoothing, rolling, fencing, road ... to Thode Brothers, Ltd., Dundurn, ... $84,000. BA about 8/12. CD 8/2—ENR ...

LATIN AMERICA

Brazil—Republic of Brazil, Dpt. P. ... fare, Rio de Janeiro, plans construction ... more 50 bed capacity each, hospital ... centers, **Breves-Bragance-Rio ... Velho-Tefe,** of Republic of Brazil, ...

Brazil, Rio de Janiero—Dr. Pinto ... hede, President Instituto de ... Pensoes dos Industriarios, Rio de ... Brazil, plans community, incl. Reading, swamp drainage, airport, ... skirts Rio de Janeiro. $30,000,000. ENR 8/19.

Central America—Republic of ... Dpt. P. Wks., Guatemala City, ... nity hospital, San Jose, Guatemala.

Central America—Government of ... Dpt. P. Wks., Tegucigalpa, plans ... 100 bed capacity hospital unit at ... $200,000.

Chile—Board Public Charities ... devised program calling for ... 356,300,000 pesos of which sum ... is earmarked to be spent on ... larging hospitals.

Ecuador, Quito—Pub. Health Dept. ... public of Ecuador, Quito, plans ... hospital. $300,000.

Guatemala, Guatemala City—... Guatemala, Dpt. P. Wks., ... plans convalescent hospital. $200,000.

Mexico and Texas—Republic of ... Health Dpt., Paseo Reformer, ... plans sanitary works along Pan-... from border at Laredo, Tex., ... City to Central American Border. ... $10,500,000. $3,500,000 funds will be ... annually for 3 years. Health-Sanitation ... office Inter-American Affairs, H. ... Commerce Bldg., Wash., D. C. will ...

Mexico—Republic of Mexico, Pub. ... Dpt., Donceles St., Mexico City, will ... early in January, annex addn. to ... pital, in **Mixcoac** suburb of Mexico ... 000; 2 health farms to house insane, ... incl. main dormitory housing ... barns, series smaller structures. ... of Guanajuato, site not selected for ... $300,000.

Mexico—State of Nuevo Leon, ... Mexico, takes bids sometime in ... lic school bldgs. at designated ... state of **Nuevo Leon.** $700,000; ... state of **Nuevo Leon,** $400,000. ...

Mexico—State of Nuevo Leon, ... J. de la Garcia, governor, receiving ... structing and paving new highways ... will construct irrigation systems ... areas of state, by Purchase and ... with some probable contractors ... all above work in state of Nuevo ... 9/15.

Mexico—State of Nuevo Leon, ... J. de La Garcia, governor, plans ... state of Nuevo Leon. $350,000.

Mexico—Yucatan Govt., Palacio ... Merida, Yucatan, assigned ... rehabilitation of United Railways ... which serves **Yucatan** state. ... canos, Juarez, 140, Mexico, D.F. ... bed hospital for oil workers and ... for their children, **Poza Rica,** ...

Venezuela—Govt. of Venezuela ... plans construction of airfields in ... **del Tachira, La Fria, Barinas,** and ... shipyard on Orinoco, with wars ... warehouses at **La Guaira** and ... port works in **Cumana** and **La ...** for Clinical Hospital and School ... in **University** City of Caracas; ... tentiary of Venezuela at **San ...** **Morros,** national services at ...

AMERICA (Cont'd.)

hinery and Transportation Depart- Ministry of Public Works. Nineteen hool bldgs. are planned; monument s in **Caracas**; house for Administrator ns in **Guanta**; barracks at **Guanta**, **Coro** and in the state of **Trujillo**; for radio receiving station, in **Caracas**; ents are to be made in radio-tele- stations of **Puerto Cabello** and ; waterworks and sewers in **Irapa**; **San Carlos, Puerto Cabello** and **Mara-**; waterworks and sewers in **Irapa**; **San Carlos, Puerto Cabello** and **Mara-** rrigation work of the **Manzanares** in State of Sucre and of the **Guataparo** ia, State of Carabobo; defense works **Fernando de Apure**; 2 silos, 1 in **San** and other in **Coro.**

PUBLIC BUILDINGS

ED WORK

rnia—City of Richmond Housing dministration Bldg., Atchison Village, d, plans by C. I. Warnecke, 1700 Center Bldg., Oakland, V. Raney, St., San Francisco, and E. Geof- gs. 605 Market St., San Francisco, y bldg., child service center, Calif.

rnia—Richmond City Housing Auth., ration Bldg., Atchison Village, Rich- ans by E. G. Bangs, 605 Market St., ncisco, family dwelling units, Calif. NHA. CD 9/3—ENR 9/9.

rnia—Richmond City Housing Auth., ration Bldg., Atchison Village, Rich- ans by A. F. Roller, Crocker First Bank Bldg., and K. Narbett, 564 St. San Francisco, family dwelling lif. 4762, for NHA. CD 9/3—ENR

rnia—Richmond City Housing Auth., ration Bldg., Atchison Village, Rich- ill not construct housing units, Calif. NHA. Project cancelled. CD 9/3—

rnia—U. S. Eng., 74 New Montgomery Francisco, housing, central Cali- ob No. 1139.

rnia—U. S. Eng., Wright Bldg., Sacra- ldgs., Spec. 685, Contra Costa Co.

rnia—U. S. Eng., 74 New Mont- St., San Francisco, bldg., Spec. 1112, ncisco Co.

rnia—Rohr Aircraft Corp., Chula ddnl. plant facilities. $330,000. De- nt Corp. will finance.

rnia and **Nevada**—Yards & Docks, t, 18 St. and Constitution Ave. N.W., D. C., engineering services by W. I. 369 Pine St., San Francisco, for 65, 4669 and 5826, bldgs., Oakland meda, Calif., and Hawthorne, Nev., 0.

Alameda—Home Owners' Loan 40 Bway., Oakland, Zone 12, plans olds & Chamberlain, 564 Market St., ncisco, converting residence at stnut St., into 4 living units, Case 0-112. $8,000.

Alameda—Home Owners' Loan 40 Bway., Oakland, Zone 12, plans T. Foulkes, 357 12 St., Oakland, apartment house at 950 Park St. living units, Case No. W4D-110.

Alameda—Yards & Docks, Navy St. and Constitution Ave. N.W., D. C., engineering and architectural by E. J. Kump & Assoc., 251 Kear- San Francisco, for NOY 4165 and . NOY 7559.

Berkeley—Home Owners' Loan 40 Bway., Oakland, Zone 12, plans olds & Chamberlain, 564 Market St., ncisco, converting commercial bldg., 6 St., into 14 living units, Case No. 1. $25,000.

Mare Island—Yards & Docks, Navy St. and Constitution Ave. N.W., D. C., engineering services by C. C. Atlas Bldg., San Francisco, for 2, 4450, 4675, 4705, 4778, 5107 and . NOY 7496.

Oakland—Home Owners' Loan 40 Bway., Oakland, Zone 12, plans Meigs, 547 Simon St., Hayward, residence at 1428 78 Ave., into 4 nits, Case No. W4B-1024. $8,000.

Oakland—Home Owners' Loan 40 Bway., Oakland, Zone 12, plans Jaekle, 731 V North Point St., San converting bldg. at 1450 12 St. g units, Case No. W4B-1091. Over

Oakland—Home Owners' Loan 40 Bway., Oakland, Zone 12, plans Marquis, 616 Santa Clara Ave., converting residence at 1708 Harri- nto 6 living units, Case No. W4B- 060.

Oakland—Home Owners' Loan 40 Bway., Oakland, Zone 12, plans Whitehead, 5365 Bway., converting at 2201 Tenth Ave. into living se No. W4B-1087. Over $5,000.

★**Calif., Oakland** — Permanent Foundation Hospital, MacArthur and Bway. Sts., hospital addn. $1,200,000. **FWA.**

†Calif., Pt. Chicago and Oakland—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by Blanchard & Maher, 369 Pine St., San Francisco, for NOY 4561, 5935, 5267, 5314 and 5937, bldgs., NOY 7550.

†Calif., San Diego—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by Holmes & Narver, 639 S. Spring St., Los Angeles, for NOY 4412, 6005, 4629 and 5440, bldg., NOY 7476; engineering services by Bowen & Rowe, 2835 Gilroy Ave., Los Angeles, for NOY 4205 and 4507, bldg., NOY 7494, both at N O B.

†Calif., San Diego—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by Kistner, Curtis & Wright, 816 W. Fifth St., Los Angeles, on NOY 4187, 5988, 5426 and 5916, bldg., NOY 7475.

†Calif., San Francisco—Home Owners' Loan Corp., Pacific Bldg., plans by W. C. Perry, 260 California St., converting 3 flats at 355 15 Ave., into 6 living units, Case No. W4A-688. $12,000.

†Calif., San Francisco—Home Owners' Loan Corp., Pacific Bldg., plans by Kent & Hass, 525 Market St., San Francisco, converting residence at 1575 Waller St., into 4 living units, Case No. W4A-360. $6,000.

†Calif., San Pedro—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by E. Heltschmidt & Chas. O. Metcham, 417 S. Hill St., Los Angeles, for NOY 7401 and 7402, bldg., small craft training center, NOY 7586.

†Calif., Stockton—Home Owners' Loan Corp., 1440 Broadway, Oakland, Zone 12, plans by F. V. Mayo, 3119 N. American St., converting rooming house at 207 East Channel St., into 5 living units, Case No. W4G-127. $10,000.

†Calif., Stockton—Home Owners' Loan Corp., 1440 Broadway, Oakland, Zone 12, plans by F. V. Mayo, 3119 N. American St., converting residence at 748 N. San Joaquin St., into 6 living units, Case No. W4G-96. $12,000.

†Connecticut—Hartford Housing Auth., 846 Asylum St., Hartford, postponed indefinitely shopping center, Conn. 3-4 W. Wilkins, 648 Asylum St., Hartford, archt. CD 9/22—ENR 9/30.

★**†Georgia**—Goodyear-Decatur Mills, Rockmart, rayon cord mill expansion. $1,246,000. Federally financed.

†Illinois—Abbott Laboratories Co., Sheridan St., North Chicago, plans plant addn. to manufacture penicillin. Est. about $235,000. Federally financed.

†Illinois—Foote Brothers Gear & Machine Corp., 5225 S. Western St., Chicago, addnl. plant facilities. Approx. $450,000. Defense Plant Corp. will finance.

†Illinois—Granite City Steel Co., Granite City, addnl. plant facilities. Approx. $70,000. Defense Plant Corp. will finance.

†Illinois—U. S. Eng., 520 Merchandise Mart, Chicago, construction, completion temporary bldgs., utilities, appurtenances, Madison Co. Under $500,000.

†Ill., Galesburg—City, plans by H. R. Zook, 140 S. Dearborn St., Chicago, 1 story, 80x90 ft., masonry block recreation bldg. $43,700. **FWA.** CD 8/25—ENR 9/2.

†Indiana—Anaconda Wire & Cable Co., 25 Bway., New York, N. Y., addnl. plant facilities. $185,000. Defense Plant Corp. will finance.

†Kan., Hayes—Home Owners' Loan Corp., Woodmen of the World Bldg., Omaha, Neb., 20 family unit conversion program.

†Kan., Herington — Home Owners' Loan Corp., Woodmen of the World Bldg., Omaha, Neb., 30 family unit conversion program.

†Kan., Pratt—Home Owners' Loan Corp., Woodmen of the World Bldg., Omaha, Neb., 20 family unit conversion program.

†Massachusetts—Clifford Mfg. Co., 564 E. 1 St., Boston, addnl. plant facilities, $280,000. Defense Plant Corp. will finance.

†Massachusetts—U. S. Eng., 31 St. James Ave., Boston, soon lets contract, bldg. alterations, No. 19-023-44 NEG 59, Suffolk Co. Under $50,000.

★**†Massachusetts**—U. S. Eng., 31 St. James Ave., Boston, military installation, Middlesex Co. Over $2,000,000.

†Mass., Boston—St. Mary's Infant Asylum & Laying In Hospital, plans by Thomas F. McDonough, 168 Dartmouth St., nurses' training school. $100,000. **FWA.**

†Mich., Detroit—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, O., plans by A. R. Morison, 900 Fox Theatre Bldg., 220 family dwelling unit housing, Mich. 20213; plans by Harley, Ellington & Day, 1507 Stroh Bldg., 140 unit family dwellings, Mich. 20214. CD 8/18—ENR 9/3.

†Mich., Detroit—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, O., plans by Herman & Simon, 131 Lafayette Bldg., 250 unit family dwellings, Mich. 20215. CD 8/18—ENR 9/3.

†Mich., Inkster—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, O., plans by Hewlett, Luckenbach & O'Dell, Dime Bank Bldg., Detroit, 310 unit family dwellings, Mich. 20198. CD 8/2—ENR 8/5.

†Mich., Pontiac—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, O., plans by Francis Engineering Co., 303-304 Eddy Bldg., Saginaw, 150 unit trailer housing, Mich. 20206. CD 7/15—ENR 7/22.

†Miss., Grenada—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., plans by E. L. Malvaney, Millsaps Bldg., Jackson, 50 trailer unit housing, Miss. 22175. CD 9/1—ENR 9/9.

Miss., Gulfport—City Port Comm., G. Mellon, pres., warehouse at marine docks. $200,000.

†Nebraska—Pub. Housing Auth., NHA, Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., plans by Neville & Sharp, engrs. and archts., 801 Midland Bldg., Kansas City, Mo., trailers, Neb. 25075. CD 9/3—ENR 9/9.

Neb., Bellevue—Bd. Educ., School Dist. 1, plans by J. L. Conley, 617 S. 51 Ave., Omaha, high school addn. $160,000. Plans application to FWA.

†Nev., Hawthorne—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by Blanchard & Maher, 369 Pine St., San Francisco, Calif., for NOY 4671, 5401, 5520 at N A D., NOY 7549.

†New Jersey—Volco Brass & Copper Co., Kenilworth, plant facilities. $415,000. Defense Plant Corp. will finance.

★**†New Jersey**—U. S. Eng., 120 Wall St., New York, 5, N. Y., military installation, Middlesex Co. Over $2,000,000.

†North Carolina—National Carbon Co., Inc., 30 E. 42 St., New York, N. Y., addnl. plant facilities. $90,000. Defense Plant Corp. will finance.

†Ohio—Clifton Products, Inc., Painesville, plant facilities, $200,000. Defense Plant Corp. will finance.

†Ohio—Pub. Housing Auth., NHA, 2073 E. Ninth St., Cleveland, plans by Garfield, Harris, Robinson & Schafer, National City Bank Bldg., Cleveland, temporary family dwelling units, Ohio 33274. CD 7/27—ENR 7/29.

†Ohio—Pub. Housing Auth., NHA, 2073 E. Ninth St., Cleveland, plans by Ed. G. Conrad, Hanna Bldg., Cleveland, temporary family dwelling units, Ohio 33273. CD 7/27—ENR 7/29.

†Ohio—Pub. Housing Auth., NHA, 2073 E. Ninth St., Cleveland, plans by G. B. Mayer, Schofield Bldg., Cleveland, temporary family dwelling units, Ohio 33278. CD 8/17—ENR 8/19.

†Ohio—Pub. Housing Auth., NHA, 2073 E. Ninth St., Cleveland, plans by Maier & Outcault, 13124 Shaker Sq., Cleveland, temporary family dwelling units, Ohio 33276. CD 8/16—ENR 8/19.

†O., Berea—Berea Community Hospital, M. C. Park, supt., 255 Front St., plans by Mellenbrook, Foley & Scott, 26 Front St., altering, constructing brick, steel, concrete hospital addn. $352,000. **FWA.** CD 2/24—ENR 3/4, under Commercial Bldgs.

†O., Cleveland—Pub. Housing Auth., NHA, 2073 E. Ninth St., Cleveland, 500 stopgap housing, Ohio 33281.

O., Hamilton—City, electrical wiring, bus bars, switches, etc., as part expansion municipal electric power and light plant. $120,000. C. N. Teaff, dir. Pub. Service, Hamilton, and Froelich & Emory, Tol. Trust Bldg., Toledo, engrs.

O., Lima—$300,000 bond election Nov. 2, Memorial Hospital addn.

†Okla., El Reno—Home Owners' Loan Corp., Cotton Exchange Bldg., Dallas, Tex., 15 family unit conversion program.

†Ore., Huntington—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, 1, Wash., plans by H. A. Herzog, Fenton Bldg., Portland, 40 unit family dwellings, Ore. 35275. CD 9/9—ENR 9/16.

†Ore., Marshfield—Home Owners' Loan Corp., Pacific Bldg., San Francisco, Calif., 40 family unit conversion program.

†Ore., Myrtle Creek—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, 1, Wash., plans by Perrin & Wick, Railway Exchange Bldg., Portland, 40 unit family dwellings, Ore. 35277; 25 trailers, Ore. 35278. CD 9/9—ENR 9/16.

†Ore., Roseburg—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, 1, Wash., plans by Perrin & Wick, Railway Exchange Bldg., Portland, 50 trailers, Ore. 35276. CD 9/9—ENR 9/16.

★**†Pennsylvania**—Boyertown Iron Ore Co., 123 S. Broad St., Phila., plans by Day & Zimmerman, 15 St. and Chestnut Sts., Phila., processing plant, $3,000,000. Defense Plant Corp. will finance.

†Pennsylvania—Brewster Aeronautical Corp., 34-01 38 Ave., Long Island City, N. Y., addnl. plant facilities. Approx. $160,000. Defense Plant Corp. will finance.

†Rhode Island—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., sewage treatment plant and sewerage sys. C. A. Maguire, 1512 Turks Head Bldg., Providence, engrs.-archts.

†R. I., Newport—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by Chas. A. Maguire & Assoc., 1515 Turkshead Bldg., Providence, for NOY 5586, NOB, NOY 7465.

PUBLIC BLDGS. (Proposed Work, Cont'd.)

†Tenn., Knoxville—Home Owners' Loan Corp., Sterick Bldg., Memphis, plans by E. M. Tisdale, Warner Bldg., Nashville, 500 houses. CD 9/22.

†Tenn., Knoxville—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., 1,625 stopgap housing, Tenn. 46107.

★**†Texas—Humble Oil & Refining Co.,** Humble Bldg., Houston, plant facilities, $2,750,000. Defense Plant Corp. will finance.

†Texas—U. S. Eng., 231 W. Main St., Denison, housing, Grayson Co. $100,000.

†Tex., Galena Park (Houston)—Bd. Educ., plans by Hedrick & Lindsley, 811 S. Standard Bldg., Houston, school bldgs., Tex. 41-633. About $150,000. **FWA.**

Tex., Houston—Home Owners' Loan Corp., West Bldg., plans by S. H. Dixon, 6902 Main St., converting bldgs., into apartments, Case No. 436.

†Utah, Clearfield—Yards & Docks, Navy Dpt., 18 St. and Constitution Ave. N.W., Wash., D. C., engineering services by Ashton & Evans, 312 Beneficial Life Bldg., Salt Lake City, for NOY 5600 at NSD, NOY 7561.

★**†Va., Portsmouth—Norfolk Co.** Hospital, 200 bed community hospital, near here. $854,700. **FWA** gr. CD 7/6—ENR 7/8.

†Washington—U. S. Eng., 800 3 Ave., Seattle, Zone 4, military housing. Negotiation Nos. 763, and 764, Snohomish Co.

†Washington—U. S. Eng., 800 3 Ave., Seattle, Zone 4, addnl. bldg. facilities, Neg. 754; ship control tower, Neg. 760, King Co.

†Washington—U. S. Eng., 800 3 Ave., Seattle, 4, bldgs., Neg. 762, Grant Co.

†Washington—U. S. Eng., 800 3 Ave., Seattle, Zone 4, modification bldgs. Neg. 781; addnl. post office facilities, Neg. 785, both Spokane Co.

†Washington—U. S. Eng., 800 3 Ave., Seattle 4, bldg., Negotiation 778, Spokane Co.

†Wash., Pasco—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, Zone 1, plans by J. Maloney, Yakima, 200 unit family dwellings, Wash. 45236. CD 8/27—ENR 9/2.

†Wash., Port Angeles—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, Zone 1, plans by V. Jones, Republic Bldg., Seattle, 40 family dwelling units, Wash. 45237. CD 8/27—ENR 9/2.

†Wash., Port Orchard—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, Zone 1, plans by Jones & Thiry, Skinner Bldg., 18 classroom school, Wash. 45-248, to serve housing Wash. 45147, 45217.

†Wash., Sunnyside—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, Zone 1, plans by J. Maloney, Yakima, 200 unit family dwellings, Wash. 45238. CD 9/9—ENR 9/16.

†Wisconsin—Metal-Mold Magnesium Corp., Cedarburg, factory addn. $200,000. Defense Plant Corp. will finance. E. C. Sandham, 95 Hamilton St., Cedarburg, engr. CD 9/10—ENR 9/16.

†Wisconsin—Pub. Housing Auth., NHA, 201 N. Wells St., Chicago, Ill., portable houses, trailer housing.

†Alaska, Anchorage—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, 1, Wash., plans by W. Bain, Textile Tower, Seattle, Wash., 15 family dwelling unit, Alaska, 50070. CD 9/1—ENR 9/9.

†Alaska, Fairbanks—Pub. Housing Auth., NHA, Skinner Bldg., 5 Ave. and Union St., Seattle, 1, Wash., plans by W Bain, Textile Tower, Seattle, Wash., 10 unit family dwellings, Alaska, 50071. CD 9/1—ENR 9/9.

N. B., Moncton—Wartime Housing, Ltd., 55 York St., Toronto, Ont., 100 addnl. houses. $225,000.

N. B., Saint John—Dominion Govt., Ottawa, Ont., plans by Dpt. Naval Services, Cartier Sq., Ottawa, Ont., new training establishment adjoining H.M.C.S. Brunswicker. $200,000.

N. B., St. Stephen—Municipality, new hospital. $150,000. W. H. Johnson, Town Hall, engr.

N. B., Victoria—Municipality, industrial plant for mfg. potato by-products, creamery and cold storage plant.

Newfoundland, St. John's—Dominion Govt., Ottawa, Ont., dwellings. $150,000. Dpt. National Defense, Cartier Square, Ottawa, Ont., archts.

N. S., Louisburg—M. S. Huntington, mayor, fish plant. $40,000.

N. S., Sydney—Dominion Govt., Ottawa, Ont., plans by Dpt. P. Wks., Ottawa, Ont., dominion bldg., incl. new post office and customs quarters. $200,000.

Ont., Hamilton—Municipality in association with Housing Administration, Dpt. Finance, Ottawa, plans by W. H. Holcombe, 63 John St., house conversion.

Ont., Islington—Etobicoke Twp., plans by Wartime Housing, Ltd., 55 York St., Toronto, 100 homes. $350,000.

Ont., Ottawa—Dpt. Pensions & Natl. Health, Daly Bldg., Mackenzie Ave., colony units for treatment convalescent veterans. $350,000.

★**Ont., Toronto—Dpt. Pensions & Natl. Health,** Daly Bldg., Mackenzie Ave., Ottawa, colony units, for treatment convalescent veterans, $700,000.

Que., Hull—Roman Catholic School Comn., c/o H. Laverdure, secy., City Hall, new school, Wrightville Dist. $150,000.

BIDS ASKED

Bids Asked after September 25

†New York—Pub. Housing Auth., NHA, 270 Bway., New York, Zone 7, repairs, housing, NY-30023. Extended date. Plans deposit $25. G. A. Boehm, 2 W. 45 St., New York, archt. CD 9/16—ENR 9/23.

Bids Asked after September 30

†Pennsylvania—Pub. Housing Auth., NHA, 270 Bway., New York, 7, N. Y., site imprvs. for housing, Pa. 36201, for Allegheny County Housing Auth., 201 County Office Bldg., Pittsburgh. Plans deposit $20. CD 9/21—ENR 9/23.

Bids Asked in October

†Maryland—Pub. Housing Auth., NHA, Temporary Bldg. 2, 19 and D Sts. N. W., Wash., D. C., temporary family housing, Md. 18250, H. R. Robinson, 1027 11 St. N. W., Wash., D. C., archt.; dwellings, Md. 18252, A. D. Cassell, 1903 14 St. N. W., Wash. 9, D. C., archt., for Baltimore Housing Auth., 709 E. Eager St., Baltimore. CD 9/21—ENR 9/23.

Bids Asked October 1

†Ky., Hopkinsville—Pub. Bldgs. Admin., 18 and F Sts., N.W., Wash., 25, D. C., health center. **FWA.** CD 5/21—ENR 5/27.

Bids Asked October 4

†New Jersey—Pub. Housing Auth., NHA, 270 New York, 7, N. Y., commercial bldg., NJ 28101. Plans deposit $10. S. Schenker, 195 Van Houten St., Paterson, archt. CD 9/16—ENR 9/23.

†Pennsylvania—Pub. Housing Auth., NHA, 270 Bway., New York, 7, N. Y., tenant activity bldg., Pa. 36201, for Allegheny County Housing Auth., 201 County Office Bldg., Pittsburgh. Plans deposit $20. CD 9/21—ENR 9/23.

Bids Asked October 5

†Georgia—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, family dwelling units, Ga. 9161. Extended date. Plans deposit $50. O. C. Poundstine, Palmer Bldg., and Jos. W. Cooper, Forsyth Bldg., Atlanta, archts. CD 8/20—ENR 9/23.

†N. J., Long Branch—Federal Works Agency, 18 and F Sts. N.W., Wash. 25, D. C., hospital addn. $126,000. Epple & Kahrs Assoc., 15 Washington St., Newark, archts.

†Ohio — Cleveland Metropolitan Housing Auth., West Mall Dr., Cleveland, temporary family dwelling units, Oh. 33266, incl. community hall, stores, sewage ejector station, water booster bldg., sewers, water lines, sidewalks, paving for NHA. Plans deposit $50. J. Byers Hays & Wilbur Watson & Associates, 4614 Prospect Ave., Cleveland, archts. CD 9/9.

Bids Asked October 7

†Alabama—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Atlanta, Ga., family dwelling units, Ala. 1215, Warren, Knight & Davis, Protective Life Bldg., Birmingham, archt.

†Ala., Hopkinsville—Pub. Bldgs. Admin., 18 and F Sts. N.W., Wash., 25, D. C., school, Ala. 15-142. **FWA.**

Bids Asked October 8

†Calif., Pittsburg—Federal Works Agency, 2223 Fulton St., Berkeley, recreation bldg., Calif. 4754-5. Franklin & Kump, 251 Kearny St., San Francisco, archt. Plans deposit $10. CD 6/28—ENR 7/8.

†Idaho, Farragut—Federal Works Agency, 511 Alaska Bldg., Seattle 4, Wash., school. Plans deposit $25. Whitehouse & Price, Hutton Bldg., Spokane, archts.

†La., Pineville—State Dpt. Health, at office of Dr. D. E. Brown, 203 Civil Courts Bldg., New Orleans, Zone 7, detention hospital, Proj. 16-140. $105,000. **FWA.** Plans deposit $15. J. Linn Scott, Littlefield Bldg., Austin, Tex., archt. J. J. Heinberg, Alexandria, assoc. archt. CD 4/22—ENR 4/29.

N. Y., Jamaica—Dpt. P. Wks., Municipal Bldg., Zone 7, New York, altering Triboro Tuberculosis Hospital, Queens Boro.

Bids Asked October 8

N. Y., New York—Dpt. P. Wks., Municipal Bldg., Zone 7, completion of contract 1, general construction work, Washington Market, Washington and Fulton Sts., Manhattan Boro.

Bids Asked October 8

†Pennsylvania—Pub. Housing Auth., NHA, 270 Bway., New York 7, N. Y., community bldg., Pa. 36222, for Allegheny County Housing Auth., 201 County Office Bldg., Pittsburgh. Plans deposit $25. (**Correction**—bid date.) CD 9/23.

Bids Asked October 9

†California—Pub. Housing Auth., NHA, 785 Market St., San Francisco, family dwelling units, Calif. 4747. Wm. P. Day & Associates, Financial Center Bldg., San Francisco, archts. CD 9/6—ENR 9/9.

Bids Asked October 12

†Ia., Knoxville—Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash., D. C., hospital bldgs. Extended date. $350,000. CD 9/10—ENR 9/16.

†N. Y., Garden City—At office Comr. Pub. Bldgs. Admin., 18 and F Sts. N.W., Wash., 25, D. C., dormitory for student nurses, at Adelphi College. $[illegible],000. **FWA** gr. Mead & White, [illegible] Park Ave., New archts. CD 8/5—[illegible] 8/12.

†Wyoming—Pub. Housing Auth., Dierks Bldg., 1006 Grand Ave., Kansas Mo., housing, community bldg., Wyo. housing, Wyo. 48[illegible] Extended date. Linder, 507 Insurance Bldg., Denver engr.-archt. CD 9/[illegible]—ENR 9/[illegible]

Bids Asked about October 15

†Texas—Pub. Housing Auth., NHA, Electric Bldg., Seventh and Taylor Sts., Fort Worth, family dwelling units, Tex. incl. streets, water, sewer, gas lines. Plans deposit $50. Hedrick & Lindsley, L. C. Ellis, 818 Southern Standard Bldg., Houston, archts. CD 9/27—ENR 9/[illegible]

Bids Asked about October 15

★**†Illinois—Chicago Housing Auth.,** 327 La Salle St., Chicago, housing administration bldg., for NHA. Total est. $[illegible]. Shaw, Naess & Murphy, 80 E. Jackson Blvd., Chicago, archts. CD 8/10—ENR 8/12.

Bids Asked about October 16

★**†Utah—U. S. Eng.,** 32 Exchange Pl., Salt Lake City, bldg., Weber Co. $[illegible],000. 9/15—ENR 9/23.

Bids Asked October 18

†Nebraska—Pub. Housing Auth., Dierks Bldg., 1006 Grand Ave., Kansas City, Mo., family dwellings, community bldg. 25074. L. Daly, 556 Insurance Bldg., [illegible] engr.-archt. CD 9/22—ENR 9/[illegible]

Bids Asked after October 18

†Pennsylvania—Pub. Housing Auth., 270 Bway., New York, 7, N. Y., family dwellings, Pa. 36438, for Allentown Housing Auth., Hanover Acres, Allentown. Plans deposit $[illegible]. CD 9/9—ENR 9/16.

Bids Asked October 19

†Mich., Fort Custer (br. Battle Creek)— Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash., D. C., Center Corridor 3-14, approx. 34,000 cu. ft.

Bids Asked October 19

†S. C., Charleston—Pub. Bldgs. Admin., Candler Bldg., Atlanta, Ga. Farm Bldg., addn., at U. S. Post Office & house.

Bids Asked About October 22

†La., Leesville—Pub. Bldgs. Admin., 18 and F Sts. N.W., Wash., 25, D. C. [illegible] bldg., La. 16-210. $183,000. **FWA.** [illegible] & Quinn, 827 Hodges St., Lake Charles, archts. CD 9/21—ENR 9/23.

Bids Asked about October 26

†Ala., Ozark—Pub. Bldgs. Admin., 18 and F Sts. N.W., Wash. 25, D. C., Dale County Center, Ala. 1-255. **FWA.** H. L. [illegible] Jr., Ozark, archt. CD 9/21—ENR 9/[illegible]

†Ill., Downey—Veterans Admin., Vermont Ave. between H and I Sts. N.W., Wash., D. C., addnl. bldgs., utilities, incl. [illegible] Bldgs. 124, 125, 126, addn. to patients' bldg. 65, Connecting Corridors 6-65-124, 125-126. Extended date. CD 9/[illegible]-8/19.

Bids Asked in November

†Maryland—Pub. Housing Auth. NHA, temporary Bldg. 2, 19 and D Sts. N.W., Wash., D. C., infirmary bldg., child service center, tenant activity bldg., for Baltimore Housing Auth., 709 E. Eager St., Baltimore. Hewitt & Fenhagen, 325 N. Charles St., Baltimore, archts.

Bids Asked

†Maine—U. S. Eng., 31 St. James Ave., Boston, Mass. (selected list bidders), temporary bldgs., No. 19-023-44-NEG 68, Androscoggin Co. Under $50,000.

†Maine—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., store bldg., housing, Me. 17038. Cram & Ferguson, 115 Boylston St., Boston, Mass.

†Maine—U. S. Eng., 31 St. James Ave., Boston, Mass. (selected list bidders), concrete bldgs., No. 19-023-44-NEG 66, [illegible]

†Massachusetts—Pub. Housing Auth., 24 School St., Boston, 1 story, 30x90 ft. community bldg., Mass. 19021, Morris Malkin, 220 Dwight St., Springfield, archt. CD 9/2-ENR 9/16.

†Massachusetts—U. S. Eng., 31 St. James Ave., Boston, Bldgs., structures, No. 19-023-44-NEG 67. $100,000-$500,000.

†Massachusetts—U. S. Eng., 31 St. James Ave., Boston (selected list bidders), temporary bldgs., No. 19-023-44-NEG 68, $50,000-$500,000.

†New Hampshire—Pub. Housing Auth., NHA, 24 School St., Boston, Mass., commercial bldg., incl. super market, NH 24001. M. E. Witmer, Hillside Dr., Portsmouth, archt. CD 8/31—ENR 9/2.

†New Jersey—U. S. Eng., 120 Wall St., New York 5, N. Y., bldg., Essex Co. $[illegible],000.

†Rhode Island—U. S. Eng., Industrial Bldg., Providence, (selected bidders), etc., Providence Co.

★**Ont., Windsor—Bd. Educ.,** Windsor collegiate institute, $500,000.

LOW BIDDERS

†Colorado—U. S. Eng., 909 17 St., [illegible] bldg., El Paso Co., from Newsom Inc. Co., 2000 W. 8 Ave., Denver. Est. $75,000.

†Florida—Pub. Housing Auth., NHA, Georgia Savings Bank Bldg., Peachtree and Broad Sts., Atlanta, Ga., dwelling units, Fla.

BIDDGS (Low Bidders, Cont'd.)

...from Thos. P. Coogan Co., 1405 ... Bldg., Little Rock, Ark., **$362,757.**

...and—Yards & Docks, Navy Dpt., 18 ...Constitution Ave. N.W., Wash., D. C., ...laboratory, NOY 7065, from John ...inc., 17 and Spring Garden Sts., ... **$92,200.** Eggers & Higgins, 542 ..., New York, N. Y., archts.

...sin—U. S. Eng., 520 Merchandise ...icago, Ill., temporary frame bldgs., ...Co., from J. P. Cullen & Son, 109 S. ...Janesville. CD 8/16—ENR 8/26.

...CTS AWARDED

...ma—U. S. Eng., Grant St. west of ...St., Mobile, altering facilities for ...housing, Etowah Co., to Markowitz ...Co., Macon, Ga. Est. **$200,000.** Bids

...ma—U. S. Eng., Grant St. west of ...St., Mobile, bldg., Mobile Co., to ...eighton Co., American National Bank ...ashville, Tenn., **$75,000.** CD 8/30—

...Ozark—Pub. Housing Auth., NHA, ...Savings Bank Bldg., Peachtree and ..., Atlanta, Ga., 100 family dwelling ...1206, to Southeastern Bldg. Co., ...206,527. CD 6/2—ENR 6/10.

...rnia—Yards & Docks, Navy Dpt., ...d Constitution Ave. N.W., Wash., ...nsit shed, NOY 6850 to A. F. Parker ..., South Park St., San Francisco, ...CD 8/3—ENR 8/5.

...fornia—Yards & Docks, Navy Dpt., ...and Constitution Ave. N.W., Wash., ...bldg. facilities, NOY 6731, to Mac- ...& Kahn, Inc., 200 Financial Center ...n Francisco, **$1,290,700.** CD 9/21.

...do—U. S. Eng., 1709 Jackson St., ...Neb., Bldg. expansion, Eagle Co., to ...tern Eng. Co., P. O. Box 567, Den- ... **$200,000.** Prouty Bros., Eng. Co., ...Exchange Bldg., Denver, archts. Bids ...arded 9/23. CD 9/15.

...ticut—Chance Vought Div., United ... Corp., 550 Main St., Stratford, 3 ...125 ft., brick office bldg., to Edwin ...ons, Inc., 555 Grant St., Bridgeport, ...financed. Albert Kahn Associated ...s & Architects, 345 New Center Bldg., ...Mich., engrs.

...a—Pub. Housing Auth., NHA, Georgia ...Bank Bldg., Peachtree and Broad ...ta, Ga., family housing units, to ...s & Bell Co., 101 Marietta Ave., ...Ga., **$173,476.** Awarded 9/20.

...da—Pub. Housing Auth., NHA, ...ia Savings Bank Bldg., Peachtree ...d Sts., Atlanta, Ga., family dwelling ...s 8223, 8226 and 8228, to A. Farnell ...rature, Ga., **$955,771.** CD 9/27, under

...Pensacola—Pub. Housing Auth., NHA, ...Savings Bank Bldg., Peachtree and ..., Atlanta, Ga., 200 family dwelling ...a. 8124, to Rust Engineering Co., ...g., Pittsburgh, Pa., **$354,630.** Yonge ...Pensacola, archts.

...a—U. S. Eng., Post Office Bldg., ...bldgs., Bibb Co., to Stillwell Constr. ..., Bids 9/15.

...—U. S. Eng., 1709 Jackson St., ..., Neb., housing, Kossuth Co., to ...ndi & Englund, and H. L. Stavn, ...ey, Minn. Est. **$1,541,000.** Howard ..., Co., 208 Bever Bldg., Cedar Rapids, ...hts. Bids 9/18. CD 9/10—ENR

...—U. S. Eng., 10 E. 17 St., Kansas ..., temporary frame bldgs., water ..., etc., Contr. 23-028-Eng-61, Saline ... W. Watson, Natl. Bank of Topeka ...peka, **$200,000.**

...husetts—Bethlehem Steel Co., East ...t, Quincy, outfitting bldg., to Chand- ..., Co., Inc., 45 Newbury St., Boston, ...00. Federally financed.

...husetts—U. S. Eng., 31 St. James ...tion, temporary bldgs., RN 44-10, ...e, to John Bowen Co., 129 New- ...Boston. Est. **$100,000-$500,000.**

...an—U. S. Eng., 700 Union Guardian ...troit, 31, altering garage bldg., ...e, to Industrial Constr. Co., 5315 ...St., Detroit.

...da—U. S. Eng., 1209 St., Sacramento, ...f., bldgs., to Stolte Inc., 1405 San ...ve., Alameda, Calif. and MacDonald ..., Inc., 200 Financial Center Bldg., ...isco, Calif., est. under **$1,000,000**; ...o J. A. Casson and N. M. Ball Sons, ...eKland Ave., Hayward, Calif., est. ...000,000; imprvs., to A. Teichert & ..., Box 1113, Sacramento, Calif., est. ...00,000, all foregoing in Nye Co.

...Jersey—U. S. Eng., 6 and Walnut ..., Pa., bldgs., sewers, etc., Mon- ..., to Ehret-Day, 601 Mattison Ave., ...ark, **$50,000.**

...Jersey—Wright Aeronautical Corp., ...ith Ave., Paterson, 1 story, brick ...ar addn., to Mahony-Troast Const. ...ain Ave., Passaic, **$75,000.** Federally

...Perth Amboy—Perth Amboy Gen- ...ital, 538 New Brunswick Ave., 2 story, bsmnt., sub-bsmnt., brick, hospital addn., to Schurman Const. Co., 732 Paterson Ave., East Rutherford, **$240,000. FWA.** Bids 6/11. CD 6/2—ENR 6/3.

N. J., Woodbine—State Dpt. Institutions & Agencies, State Office Bldg., Trenton, 2½ story, brick, concrete dormitory, New Jersey State Colony, to J. C. Scully, Wildwood, **$170,000.** CD 7/9—ENR 8/5.

†New York—U. S. Eng., 120 Wall St., New York, Zone 5, bldg., Kings Co., to J. A. Lee, 3103 Farragut Rd., Brooklyn, **$50,000.**

†O., Canton—Aultman Hospital, A. E. Gibbs, secy., 625 Clarendon Ave., general contract 3 story, 55x200 ft., brick, rein.-con. hospital addn., alterations, to R. H. Evans Co., Mellett Bldg., **$225,200;** plumbing, heating, ventilating, to Standard Plumbing & Heating Co., 435 Walnut St., **$54,700.** Bids 9/8. CD 4/6—ENR 4/8.

†O., Dayton—Pub. Housing Auth., NHA, 2073 E. 9 St., Cleveland, 60 unit family housing, Ohio 33272, to Neighborgall & Leach, Inc., 226 5 Ave. Arcade, Huntington, W. Va., **$158,900.** Bids 8/28. CD 8/18—ENR 8/19.

†Oklahoma—U. S. Eng., 416 Wright Bldg., Tulsa, Zone 2, engine repair shop expansion, Sol. 957-Neg-44-40, Oklahoma Co., to Chas. M. Suttle, 12 N. W. 8 St., Oklahoma City, **$66,000.** CD 8/30—ENR 9/2.

†Pennsylvania—Defense Plant Corp., 811 Vermont Ave. N.W., Wash., D. C., design and construction propane standby plant, at alcohol plant, 12 addnl. steel tanks and piping, to F. J. Richard & Co., Fidelity Bldg., Kansas City, Mo. Est. **$120,000.**

★**†Pennsylvania** — Fleetwings, Inc., Bristol, recreation and service centers, Nos. 1 and 2, to Turner Constr. Co., Architects Bldg., Phila., each **$500,000.** Federally financed.

†Rhode Island—U. S. Eng., 819 Industrial Trust Bldg., Providence, bldg., heating facilities, No. 44-30, Providence Co., to M. J. Flaherty Co., 342 Newbury St., Boston, Mass. Est. under **$50,000.**

†R. I., East Greenwich—Federal Works Agency, 99 Chauncy St., Boston, Mass., 3 brick bldg. addns., to Walter Barker, Inc., 23 Main St., Taunton, Mass. Est. **$45,000.** CD 9/3—ENR 9/9.

★**†Texas**—Pub. Housing Auth., NHA, 1205 Electric Bldg., Seventh and Taylor Sts., Fort Worth, dwelling units, Tex. 41605 and 41609, to Robert E. McKee, El Paso, **$1,408,000.** Bids 9/18, awarded 9/20. CD 9/21—ENR 9/23, under LB.

†Texas—Sheffield Steel Co., Industrial Rd., Houston, chemical laboratory blooming mill annex, to Fluor Constr. Co., Bankers Mtg. Bldg., Houston, **$92,000.** Defense Plant Corp. will finance. J. S. Frazer, project engr., and W. W. Winkler, c/o operators, engr. CD 9/17—ENR 9/23.

†Texas—U. S. Eng., Fort Sam Houston, motor repair shop, Bastrop Co., to Leslie F. Crockett, 112 Academy Dr., Austin, over **$40,000.**

†Texas—U. S. Eng., Albuquerque, N. M., bldg., Ward Co. to Suggs Constr. Co., Box 1296, Abilene, **$31,000.**

Tex., College Station—A & M College of Texas, College Station, cotton oil mill bldg., to Ed. Johnson, P. O. Box 424, Waco, **$40,000.** CD 8/6—ENR 8/12.

†Washington—U. S. Eng., 800 3 Ave., Seattle, Zone 4, housing and sewerage sys., Clallam Co., to Sullivan, Lynch & Hainsworth, 1822 McGilvra Blvd., Seattle, **$200,000.** CD 8/17—ENR 8/19.

Wash., Ft. Steilacoom—State Dpt. Finance, Olympia, Western State Hospital addn., to Roy T. Early Co., 321 Middle Waterway, Tacoma, **$189,000.** Bids 9/17. CD 9/1—ENR 9/9.

B. C., Esquimalt—Wartime Housing Ltd., 135 E. 2 St., North Vancouver, 100 dwelling units, roads and sewage facilities, to J. A. Pollard, 625 Fort St., Victoria, **$300,000.** Awarded 9/22. CD 6/14—ENR 6/17.

N. S., Halifax—Wartime Housing, Ltd., 55 York St., Toronto, Ont., school, to Brookfield Const. Co. Ltd., 169 Hollis St. About **$200,000.**

Quebec—Wartime Housing Ltd., 55 York St., Toronto, Ont., 4 room school at Chicoutimi and 10 room school at Arvida and Jonquiere, to G. Archambault Ltd., 726 Atwater Ave., Montreal, about **$180,000.**

COMMERCIAL BUILDINGS

PROPOSED WORK

★**Calif., San Diego**—R. C. Lichty, 3829 Centre St., 200 dwellings. Over $500,000.

★**Calif., Wilmington**—Murphy Bros. Co., c/o H. Gibbs, archt., Carroll Park West, Long Beach, 309 six room frame, stucco, dwellings. $1,100,000.

†Me., Brunswick—St. Johns Roman Catholic School, W. Dauphin, pastor, Brunswick, plans by A. J. Harriman, 88 Shepley St., Auburn, rebuilding school. $75,000. **FWA.**

N. J., Newark—Union Irvington Land Dev. Co., 1040 Springfield Ave., Irvington; plans by A. Silberstein, 24 William St., group 2 story brick residences. $150,000.

N. J., Orange—Len Home Builders, 865 Kearny Ave., North Arlington, plans by McMurray & Schmidlin, 965 Stuyvesant Ave., Union, Edison Village, apartments, 2 story, frame, brick veneer. $190,000.

N. J., Union City—Holy Family School, 560 32 St., plans by F. J. Ricker, 6115 Hudson Ave., West New York, catholic church and school bldg. $150,000.

★**N. Y., Tonawanda**—Guelich & Boebel, Inc., c/o Eugene McMahon, atty., 1350 Hertel Ave., Buffalo, housing and business center development, Delaware Ave. near Sheridan Dr. $1,000,000.

★**O., Euclid**—Kenwood Village Garden Co., F. Celeste, 1145 Union Commerce Bldg., Cleveland, plans by Garfield, Harris, Robinson & Schafer, National City Bldg., Cleveland, six 2 and 3 story, brick apartment bldgs. $500,000.

★**O., Youngstown**—N. K. Winston Co., c/o L. F. Bond, 221 W. 48 St., New York, N. Y., 300 duplex multiple type, brick, concrete block housing. $1,500,000.

Pa., Erie—Owner, c/o Daniel P. Dundon, City Hall, Erie, 75 frame dwelling units $375,000.

★**Pa., Hatboro**—L. H. Cohan, 2211 Delancy St., 154 dwellings, Old York and County Line Rd. $775,000.

Tex., Corpus Christi—T. M. Bell, Corpus Christi, nineteen 1 story, dwellings. $150,000.

Tex., Houston—L. V. & C. Detering, 3028 Washington St., Houston, thirty-seven 1 story, frame type, asbestos siding dwellings, concrete slab fdns., etc. $175,000.

Tex., Houston (Galena Park area)—Mensco, Inc., R. J. Newman, M & M Bldg., Houston, one hundred five 1 story dwellings. $475,000.

★**Utah, Salt Lake City**—Country Club Village, Inc., c/o Rawlings, Black & Wallace, agent, Judge Bldg., 800 garden-type apartments, landscaped with hard-surface streets, playgrounds, shopping center and off-street parking area, vicinity of 21st St., South St. and Foothill Dr., $5,500,000.

Wash., Seattle—A. Balch, 6855 50 Ave. N.E., Zone 5, plans by Thomas, Grainger & Thomas, Arcade Bldg., Zone 1, frame houses, 48 Ave. N.E., near E. 75 St. $162,000.

B. C., Holberg—B. C. Pulp & Paper Co., Ltd., Port Alice, 200 dwellings, developing of townsite, streets.

Ont., Clarkston (Toronto)—British American Oil Co., Ltd., Royal Bank Bldg., Toronto, 150 abode-type houses at Ryrie Farm, Clarkson Side Rd. About $300,000.

Ont., Gananoque—Parmenter & Bulloch Co., Ltd., Clarence St., 25 or more employees home, William St. between King and John Sts. Over $150,000.

Que., Quebec City — Armand Desjardins, c/o F. X. Chouinard, city clk., Quebec City, plans by Rene Blanchet, 53 d'Auteuil St., 200 houses in Ste. Foye Parish. $5,000-$10,000 ea.

CONTRACTS AWARDED

★**Calif., Lakewood Village (R. Sta. Long Beach)**—Griffith & Legg, 4124 Marber St., 298 frame, stucco dwellings. Owner builds. **$900,000.**

Calif., Lakewood Village (R. Sta. Long Beach)—Fourth Defense Housing Corp., 4700 Clark Ave., 100 dwellings. Owner builds. **$350,000.**

Calif., Lakewood Village (R. Sta. Long Beach)—C. B. Robertson, 11,065 Sunset Blvd., West Los Angeles, 60 frame, stucco dwellings. Owner builds. **$200,000.** CD 8/13—ENR 8/19.

Calif., Lakewood Village (R. Sta. Long Beach)—Third Defense Housing Corp., 4700 Clark Ave., 100 frame, stucco dwellings. Owner builds. **$350,000.**

Calif., Lakewood Village (R. Sta. Long Beach)—Wm. Warmington Co., 8330 W. 3 St., Los Angeles, 109 six room, frame, stucco dwellings. Owner builds. **$400,000.** C. N. Aldrich, 1834 Dawson Ave., Long Beach, archt. CD 3/4—ENR 3/11.

Calif., Long Beach—World Home Builders, c/o Contractors, 65 frame, stucco dwellings, to Morris Bear, 1240 Daniels Ave., Los Angeles. Est. over **$150,000.**

★**Calif., Oakland**—P. Heraty, Inc., 3625 McArthur Blvd., 300 residences. Owner builds. **$1,500,000.** CD 7/27—ENR 7/29.

★**Calif., Oakland**—Carl C. Lassen, 123 Palm Dr., Piedmont, 144 residences. Owner builds. **$560,000.**

★**Calif., San Diego**—Monterey Heights Co., 4700 Clark Ave., Lakewood Village, 200 five room dwellings, frame, stucco. Owner builds. **$700,000.** Witmer & Watson, 912 Architects Bldg., Los Angeles, archts.

Calif., San Francisco—R. F. Galli, 377 West Portal Ave., San Francisco, 1 story frame residences. Owner builds. To exceed **$150,000.**

Calif., San Francisco—Henry Doelger Builder Inc., 320 Judah St., 1 story frame residences. Owner builds. To exceed **$150,000.**

Calif., South Gate—W. E. Robertson & Co., 4015 W. Jefferson Blvd., Los Angeles, 60 frame, stucco dwellings. Owner builds. Over **$150,000.**

★**Calif., Watts**—Raydon Building Co., Citizens Natl. Bank Bldg., Los Angeles, 300 frame, stucco dwellings. Owner builds. Over

COMMERCIAL BLDGS. (Contracts Awarded, Cont'd.)

$1,000,000. P. R. Williams, 1271 W. 35 St., Los Angeles, archt.

Calif., Wilmington—Third Western Defense Housing Corp., 4700 Clark Ave., Lakewood Village, 400 apartment units. Owner builds. Over **$150,000.** J. Douglas, 1041 E. Green St., Pasadena, archt.

Conn., Fairfield—Fairfield Heights Corp., 36 George Ave., Norwalk, thirty-two 1 and 1½ story, frame, concrete houses, School, High St. and Jennings Rd. Owner builds. **$160,000.**

La., Baton Rouge—Gulf Coast Imprv. Corp., design and construction 102 housing units, Istrouma Section, to Rob. Thibodeaux, Reymond Bldg., **$459,000.** FHA.

La., Baton Rouge—LaLum Co., Inc., design and construction 50 housing units, Istrouma Section, to Robert Thibodeaux, Reymond Bldg., **$225,000.** FHA.

Miss., Biloxi—J. Schivan, Biloxi, 100 family frame dwelling units, to Algernon Blair, Inc., First National Bank Bldg., Montgomery, Ala., **$193,000.**

O., Cleveland—New York Central R. R. Co., F. J. Jerome, ch. engr., LaSalle Station, Chicago, Ill., 2 story, bsmnt., 34x78x116 ft. office bldg. addn. to engine room, 40x120 ft. coal dock, three 25x28 ft. ash pits, 50x50 coal hopper and 20x80 ft. service bldg., to Duffy Constr. Co., 230 Park Ave., New York, N. Y. Est. **$150,000.**

O., Cleveland—S. Zehman, 1915 Powell Rd., 3 story, brick apartment bldg., masonry work, to Morris Appelbaum, 3284 Enderby Rd. Est. **$200,000.** CD 8/3—ENR 8/5.

★**O., Euclid**—L. M. Gundersen Co., 13124 Shaker Sq., Cleveland, six 3 story, bsmnt., brick apartment bldgs., own forces, **$750,000.** George Howard Burrows, 3113 S. Moreland Blvd., Cleveland, archt.

Pa., Chester—F. A. Collins, Concord and Dutton Mill Rds., Green Ridge, 50 homes, Concord and Dutton Mill Rds., Green Ridge, near here, to F. A. Collins, Concord and Dutton Mill Rds., Green Ridge, **$235,000.** Awarded 9/17.

Pa., East McKeesport—H. Justin Brown, 505 Greenhurst Dr., Mt. Lebanon, forty-two 2 story, brick residences, day labor. **$400,000.**

★**Pa., Hatboro**—Brewster Park Homes, Inc., c/o L. H. Cohan, 2211 Delancy St., Phila., 154 dwellings, Old York and County Line Rds. Owner builds. **$775,000.** CD 9/22—ENR 9/30.

★**Pa., Lansdowne Park (mail Chinchilla)**—Warner-West Corp., Shudeland Ave. and Garrett Rd., Drexel Hill, 600 dwellings. Owner builds. **$3,000,000.**

★**Tex., Pasadena**—Jas. T. Taylor, 605 1st National Bank Bldg., Fort Worth, seven hundred forty-five 1 story, frame dwellings. Owner builds. **$3,000,000.** D. M. Duller, 2nd National Bank Bldg., Houston, archt. CD 9/14—ENR 9/16.

INDUSTRIAL BUILDINGS

PROPOSED WORK

Idaho, Lewiston—CANNERY—Smith Frozen Foods, A. T. Smith, pres., Lewiston, 4 story cannery bldg. $40,000.

Minn., Minneapolis—WAREHOUSE—W. H. Barber Co., W. G. Halmgrew, vice pres., 825 S. E. Thornton St., rebuilding warehouse, Arthur and Seymour Sts. S.E.

Neb., Lincoln — PLANT — Fairmont Creamery Co., 12 and Jones Sts., Omaha, plant addn. Approx. $50,000.

Neb., Lincoln—SPRAY POWDERED MILK PLANT—Roberts Dairy Co., 20 and N Sts., spray powdered milk plant addn. $100,000.

N. J., Kearny—PLANT—United Cork Co., foot of Central Ave., plans by Herman Hensel, 101 Irving Ave., Jersey City, 1 story, concrete block, brick mfg. bldg., **$40,000.**

O., Cleveland—FACTORY—Victoreen Instrument Co., J. A. Victoreen, pres., 5806 Hough Ave., making plans 1 story, 90x140 ft., brick, steel, concrete factory, $100,000. W. S. Ferguson Co., 2362 Euclid Ave., engr.

O., Painesville—FACTORY—Clifton Products Co., Inc., Blackbrook Rd., plans by E. McGeorge & T. Hargett, engrs. and archts., 9400 Quincy Ave., Cleveland, 1 story, 80x200 ft., brick, steel factory addn. $75,000.

Ore., Prineville — PLANER MILL — Pine Products Corp., rebuilding planer mill, destroyed by fire. $70,000.

Tex., Yantis—PLANT—Warren Petroleum Co., Marshall, 4 new units for casing head gasoline plant. $110,000.

Wis., Brillion — FACTORY — Brillion Iron Works, Brillion, plans by E. A. Wettengel, 116 S. Pierce St., Appleton, 1 story, 60x63 ft. concrete factory.

Wis., Marshfield—PLANT—Marshfield Cold Storage Co., 15 N. Central Ave., plans by F. F. Drolshagen, 647 W. Virginia St., Milwaukee, rein.-con. brick cold storage plant.

B. C., Katz (via Hope)—LOGGING PLANT—Fraser River Timber Co., Ltd., Katz (via Hope), logging plant, saw mill and camp bldgs. $40,000.

B. C., Kelowna—SAW MILL—Boundary Sawmills, Ltd., Casorso Bldg., sawmill-planing mill.

B. C., Vancouver—LOGGING PLANT, etc.—Deep Cove Sawmills Ltd., 1003 Rogers Bldg., logging plant, saw and shingle mills. $50,000.

B. C., Vancouver—SAW MILL, etc.—Timbers Ventures, Ltd., 800 Hall Bldg., sawmill, shingle mill. $50,000.

N. B., Saint John—PLANT—Saint John Milling Co., Ltd., 7 City Rd., reconstructing fire damaged plant, constructing 2 grain elevators.

N. S., Truro—PLANT—Con Lumber & Milling Co., Ltd., 14 Main St. (Bible Hill), plant. $50,000.

Ontario—PLANT—Cardiff Fluorito Mines, Ltd., c/o E. C. Cattanach, 68 Prince Arthur St., Toronto, development work, necessary equip. and bldg.

Ont., Acton—FLOUR AND FEED MILL—Acton Flour Mills Ltd., Acton, flour and feed mill.

Ont., Belmont—PLANT—Borden Co. Ltd., 7 Spadina Crescent, Toronto, plant remodeling, exten. $60,000. CD 5/18/42.

Ont., Hamilton — PLANT LOADING BRIDGE, etc.—Frost Steel & Wire Co., Ltd., 250 Lothridge St., loading bridge and crane installation. About $40,000. CD 3/30.

Ont., Kitchener—PLANT—Pannill Lumber Co. Ltd., c/o G. M. Bray, Kitchener, general woodworking plant, saw mill, etc.

Ont., New Toronto—MINING STRUCTURES—Unigo Mines, Ltd., c/o H. Woodhouse, mining structures, equip.

Ont., Orillia—PLANT—Hunter Boats, Ltd., c/o P. A. Copeland, boat building and repairing plant. $40,000.

Ont., St. Thomas—PLANT—Elgin Growers Co-operative, Ltd., 20 William St., cold storage and processing plant exten. Margison & Babcock, 210 W. Dundas St., Toronto, engrs. CD 2/4—ENR 2/11.

Ont., Toronto—PLANT—Aunite Mining Corp. Ltd., c/o E. O. Ott, 677 Yonge St., developing plant and essential bldgs.

Ont., Toronto—MINING STRUCTURES, etc.—Beaudega Mines, Ltd., L. H. deZeeuw, 67 Yonge St., mining structures, equip. $50,000.

Ont., Toronto—PLANT—Citralam Malartic Mines, Ltd., c/o A. I. Hodgins, 20 W. Richmond St., plant development and essential mine bldgs. $100,000.

Ont., Toronto—PLANT—Dominion Tar & Chemical Co., Ltd., 14 Morse St., plant remodeling. $40,000.

Ont., Toronto—PLANT—Harscott Food Co., Ltd., c/o S. Ciglan, 100 W. Adelaide St., plant for mfg. jams, jellies, etc., and canned fruits and vegetables. $50,000.

Ont., Toronto—PLANT—Kasle Steel Corp., c/o L. A. Maldaver, 100 W. Adelaide St., steel and steel products plant. $40,000.

Ont., Toronto—PLANT—Marston Minerals Ltd., c/o H. B. Setterington, 15 Toronto St., developing plant and necessary bldgs. for mining and milling. $50,000.

Ont., Toronto—PLANT—Silanco Mining & Smelting Corp., Ltd., c/o S. Ciglen, 100 W. Adelaide St., developing plant and essential bldgs. $70,000.

Ont., Windsor—PLANT—Eco Gas Saver, Ltd., c/o O. LaRocque, plant for mfg. gas saving devices, etc. $40,000.

Ont., Woodstock—PLANT—Firestone Cotton Mills of Canada, Ltd., 14 Oxford St., plans by Hutton & Souter, Figott Bldg., Hamilton, plant addn. $200,000. CD 8/18—ENR 9/2.

Que., Cookshire—PLANT—R. Wallace & Sons Mfg. Co. Ltd., Cookshire, plant addn. to cutlery sect. $45,000.

Que., Hull—SERVICE STATION—St. Denis Service Station, Ltd., 1 Maisoneuve St., service station addn., constructing repair shop and garage.

Que., Hull—PLANT—Scobie Silk Mfg. Co., Almonte, Ont., textile plant exten.

Que., Kilmar—PLANT, etc.—Canadian Refactories, Ltd., Canada Cement Bldg., Montreal, plant exten., construction workmen's dwellings.

Que., Montreal—PLANT—Canadian Vickers Ltd., 5136 Notre Dame St. E., altering plant. $50,000.

Que., Montreal—PLANT—Federal Chemicals Co., Ltd., c/o J. F. Stoliker, Windsor, Ont., plant. $50,000.

Que., Montreal—PLANT—Jolicoeur Laundry Ltd., 4132 Parthenais St., plans by J. N. Caron, 1407 Pie IX Bldg., plant exten.

Que., Montreal—PLANT—National Tanning Corp., 6525 Waverly St., plans by M. W. Roth, 4925 Darnal Ave., plant addn. $40,000.

Que., St. Laurent (Postal District, Montreal)—PLANT—Clough Dyestuff Co. Ltd., St. Laurent, plant, $40,000.

Que., Thetford Mines—PLANT—Shawinigan Water & Power Co. Ltd., Power Bldg., Craig St. W., Montreal, remodeling part existing plant.

Que., Three [illegible] Gouin Lumber Co. [illegible] boiler house, ware[illegible]

Que., Three [illegible] Lumber Co., Ltd. [illegible] modeling saw mill

Que., Ville St. Pierre (Postal Dist. [illegible]—PLANT—Canad[illegible] 621 W. Craig St. [illegible] con., brick plant [illegible]

Sask., Moose Jaw—GRAIN ELEVATOR—[illegible]tional Flour Mills Ltd., c/o W. F. [illegible] mgr., Moose Jaw, grain elevator, [illegible] house, package department and [illegible] house. $60,000.

BIDS ASKED

Bids Asked in October

Pennsylvania—PLANT—U. S. Coal Co., H. M. Moses, pres., Frick Bldg., Pittsburgh, coal cleaning plant, Connellsville Co. Walter Houseman, c/o owner, [illegible] 9/16—ENR 9/16.

Bids Asked

N. J., Harrison—LOCKER BLDG.—Corp. of America, 415 S. 5 St., 1 story, brick locker bldg.

Tex., Houston—PLANT—Reed Roller Mack St., 2 story plant bldg. Over H. Loyd, 4605 Montrose St., engr. [illegible] ENR 9/23.

Bids Asked

CONTRACTS AWARDED

Ia., Hubbard—PROCESSING MILL—[illegible]ers Elevator, Hubbard, soy bean processing mill, day labor. $40,000.

Neb., Lincoln — PLANT — Lincoln [illegible] Co., 320 N. St., rendering plant, to Assenmacher-Rokahr, 1815 Y St. $50,000. Henschien, Everde & Cromie, Van Buren St., Chicago, Ill., engrs. CD ENR 7/8.

N. J., Elizabethport—SHOP—Central of New Jersey, A. E. Owen, ch. engr., Terminal, Phila., Pa., 2 story, brick locomotive repair shop, to Sherman Co., 782 Paterson Ave., East Rutherford. $45,000. CD 8/24—ENR 8/26.

N. J., Hillside—PLANT—G. & H. Metal Works, 51 Smith St., Irvington, concrete block mfg. bldg., to Zander & [illegible] 826 S. 20 St., Newark. $40,000. Darlington, per, 22 Ridgewood Ave., Irvington. CD 1/11—ENR 1/14.

N. J., Hoboken—PLANT—White Mfg. Co., 1012 Grand St., 1 story, 75 brick mfg. bldg. top addn., to H. McCaffrey Co., 419 4 Ave., New York. $45,000. Jas. C. Schaeffler, 78 [illegible] New Rochelle, N. Y., archt. CD 8/[illegible] 9/2.

N. J., Woodbridge—FACTORY—N. J. Finishing Co., Amboy Ave., 1 story, [illegible] faced mfg. bldg. addn., to C. L. Chr[illegible] 2 St., Raritan. $45,000. M. G. Tu[illegible] Smith St., Perth Amboy, archt.

O., Middlefield — PLANT — Johnson Co., H. Johnson, pres., design and [illegible] 1 story, brick, steel, concrete plant, Austin Co., 16110 Euclid Ave., Cleveland. $50,000. CD 8/31—ENR 9/2.

O., Newcomerstown — FACTORY — Bros. Co., L. C. Heller, secy., 1 story, [illegible] ft., brick, steel, concrete factory addn. Wendling Bros. Co., 833 Wooster Ave., [illegible] Est. $75,000.

Pa., Pittsburgh—PLANT—Seaboard Bottle Co., R. R. Underwood, pres., [illegible] Ave. RR, 1 story, 60x200 ft., brick, [illegible] Edwin G. Smith, 495 Lincoln Ave., [illegible] Est. **$60,000.**

R. I., Central Falls — FACTORY — [illegible] Products Co., 86 Hadwin St., 2 story, brick tory, to Central Engr. & Constr. Co., [illegible] Providence. Est. $40,000. Dwight Seabury, 188 Main St., Pawtucket, engr. CD 8/12.

Wis., Stevens Point—FACTORY—[illegible] Furniture Co., 235 N. 3 St., 1 story, [illegible] ft., concrete fdn. for 3 addnl. stories, factory addn., alterations, to Lee Yaeger, Sims Ave. F. Spalenka, 432 Normal, archt.

Alta., Calgary—ROUNDHOUSE, etc.—[illegible]nadian National Railways, J. W. Porter, engr. (western region), Winnipeg. Install roundhouse and machine shop to [illegible] Wells, Wilkie, Sask., about $40,000. ENR 7/8.

Ont., Cornwall—PLANT—Consolidated [illegible]ada), Ltd., Cornwall, plant addn., [illegible] Rd., to Foundation Co. of Canada, Ltd., Sherbrooke St. W., Montreal, Que. **$150,000.**

Ont., Toronto—PLANT—Moffats, Ltd., Dennison Ave., Weston, plant addn., to Dennison Ave., Weston, near here, to J. R. [illegible] 18 Toronto St., $45,000. CD 9/16—ENR

Que., Ste. Therese—PLANT—Commercial Plywood Co., Ltd., Ste. Therese, remodel plant, to A. F. Byers Constr. Co., Ltd., University St., Montreal; steel, to Canada Structural Steel Works, Ltd., 660 [illegible] Montreal. Est. $40,000. Nobbs & Hyde, Union Ave., Montreal, archts.

For Proposal Advertisements see A[illegible]

OFFICIAL PROPOSALS

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D COPY TO OFFICIAL PROPOSAL DIVISION, ENGINEERING NEWS-RECORD, 330 W. 42ND ST., NEW YORK, N. Y.

THE SANITARY DISTRICT OF CHICAGO

PROPOSALS TO BE RECEIVED

Sealed proposals endorsed

Proposal for Purchasing Unused, Used and Scrapped Equipment, Materials and Supplies"

be received by the Clerk of The Sanitary trict of Chicago at the office of said Sanitary rict, Room 600, 910 South Michigan Avenue, cago, Illinois, until 1:30 o'clock P. M. Central Time on Thursday, October 14, 1943, and will opened publicly by the Board of Trustees of Sanitary District at a meeting to be held on day or at the first meeting thereafter.

roposals are invited for the purchase of two switcher-type steam locomotives, one used e, miscellaneous items of unused and used uction equipment, parts, materials and sup- miscellaneous items of used stationary equip- and miscellaneous items of scrapped equip- All equipment, parts, materials and supplies being offered as is in their present condition the bidder must submit proposals upon a per- examination of the items offered.

ll unused, used and scrapped equipment, mate- and supplies shall be removed by the pur- er at his own expense under the general super- n of the Chief Engineer of the Sanitary Dis- of Chicago, or his authorized representative.

roposals may be submitted for the purchase of ed, used and scrapped equipment, materials supplies included under any or all items or ny number of or all units under any one item to the maximum extent of the number offered, but must be submitted on forms furnished by the Sanitary District and shall conform to all the terms and conditions of the "Requirements for Bidding and Instructions to Bidders" and the specifications and plans attached thereto. Said forms will be furnished by the Chief Engineer of said Sanitary District upon application.

Each proposal shall be accompanied by cash, or a cashier's or certified check on a responsible bank doing business in the City of Chicago, payable to the order of the Clerk of the Sanitary District of Chicago, in the amount of ten per cent (10%) of the total amount of the proposal for which bids are submitted. Any proposal submitted without being accompanied by such cash or check will not be considered and will not be read after it is publicly opened.

The Board of Trustees of the Sanitary District of Chicago reserves the right to reject any or all proposals, in whole or in part.

THE SANITARY DISTRICT OF CHICAGO
By R. A. Woodhull
Chairman of Its Committee on Finance

ATTEST:
Jas. J. Sullivan, *Clerk*.
Chicago, Illinois, September 29, 1943.

(U. S. Government)

D STATES DEPARTMENT OF NTERIOR, Bureau of Reclamation, gton, D. C., September 10, 1943. bids (Specifications No. 1060) will be d at the office of the Bureau of ation, Yakima, Washington, until 10 ctober 12, 1943, and then publicly for furnishing labor and materials rforming all work for the *construc- earthwork, concrete lining, and struc- from station 3354+00 to station 0 Yakima Ridge Canal*, Roza di- Yakima project, Washington. The located from about four miles north- about 15 miles east of Sunnyside, gton.

principal items of work and the esti- quantities involved are as follows: 0 cubic yards of excavation, com- r canal; 173,000 cubic yards of ex- , rock, for canal; 100,000 cubic f excavation for core banks; 65,000 ards of compacting embankments; station cubic yards of overhaul; 27,- ic yards of excavation, common, for e channels and dikes; 790 cubic f excavation, rock, for drainage s and dikes; 70,000 cubic yards of ining of canal; 2,810 cubic yards of blanket on inside of canal embank- 16,200 cubic yards of excavation, , for structures; 1,700 cubic yards vation, rock, for structures; 26,000 yards of preparing rock foundations crete lining; 18,000 square yards of g earth foundations for concrete lin- ,200 cubic yards of backfill; 5,000 ards of puddling or tamping back- cubic yards of placing gravel and ckfill about arch culverts; 5,900 ards of compacting backfill about lverts; 1,960 cubic yards of concrete ctures; 5,000 cubic yards of concrete l lining; 1,280 square yards of dry- wing; placing 345,000 pounds of re- ent bars; erecting 93 M ft. b.m. of n bridges; constructing 10,750 linear -inch diameter underdrains with un- d joints; laying 100 linear feet of diameter sewer pipe with cemented laying 2,080 linear feet of 12-inch r concrete pipe; laying 100 linear 5-inch diameter concrete pipe; lay- linear feet of 18-inch diameter con- e; laying 200 linear feet of 24-inch concrete pipe; laying 485 linear feet ch diameter concrete pipe; laying r feet of 36-inch diameter concrete nstalling 1,200 pounds of blow-off d connections; placing 2,300 pounds l water stops in joints; installing ounds of gates; and installing 2,000 of miscellaneous metalwork. This n for bids does not cover the pur- materials which are to be furnished Government. Materials to be fur- y the contractor and those furnished Government are described in the

(U. S. Government)

specifications which will be a part of the contract. The work shall be commenced within thirty (30) calendar days after date of receipt of notice to proceed and shall be completed within four hundred (400) calendar days from the date of receipt of such notice, as provided in the specifications. Guarantee will be required with each bid in an amount not less than 10 percent of the amount of the bid. Performance bond will be required in an amount not less than 50 percent of the estimated aggregate payments to be made under the contract. Payment bond will be required in the sum of one-half of the total amount payable by the terms of the contract. Liquidated damages for delay will be fifty dollars ($50) per day for each uncompleted schedule. Partial payments will be made monthly. No charge to prospective bidders for copies of the specifications and drawings; to others, $2.00 per copy, not returnable. For particulars, address the Bureau of Reclamation, Yakima, Washington; Denver, 2, Colorado; or Washington, 25, D.C. H. W. Bashore, Commissioner. (182)

Public Roads Administration, Federal Works Agency, Arlington County, Virginia, September 17, 1943. SEALED BIDS will be received at the office of the District Engineer, Public Roads Administration, 1440 Columbia Pike, Arlington, Virginia, until 10:00 o'clock, a.m., E.W.T., October 2, 1943, *for the construction of Project C-2 Military Highway, District of Columbia to Camp Springs, Maryland, Prince Georges County, (Bridge under Suitland-Silver Hill Road)*. Approximate quantities of the more important items are as follows: 17,200 Cu. Yd. Excavation; 1,495 Cu. Yd. Concrete; 140,000 Lb. Reinforcing Steel; and 270 Cu. Yd. Stone Masonry. Minimum rates of wages for laborers and mechanics on this project have been fixed by the Secretary of Labor as required by law. Plans, specification and proposal forms may be obtained at the address given above. H. J. Spelman, District Engineer. (181)

OFFICIAL PROPOSALS

Bids: October 11, 1943 (183)

Sewer Construction

WAR PUBLIC WORKS PROJECT
No. N. Y. 30-242
TOWN OF SALINA, ONONDAGA COUNTY
LIVERPOOL, N. Y.

Separate sealed bids for Sewer Construction for Contract No. 1 for the completion of the portion of the Mattydale Sewer System east of the Brewerton Road will be received by the Town Board of the Town of Salina, Onondaga County, N. Y., at the office of said Town Board, Liverpool, N. Y. until 10 o'clock A.M. E. W. T., October 11, 1943 and then at said office publicly opened and read aloud.

The Information for Bidders, Form of Bid, Form of Contract, Plans, Specifications, and Forms of Bid Bond and Performance Bond may be examined at said office and copies thereof obtained upon payment of $10.00 for each set. Any bidder, upon returning such set promptly and in good condition, will be refunded his payment, and any non-bidder upon so returning such a set will be refunded $5.00.

The Town of Salina reserves the right to waive any informalities in or to reject any and all bids.

Each bidder must deposit with his bid security in the amount of $5,000.00 in the form and subject to the conditions provided in the Information for Bidders.

Attention of bidders is particularly called to the requirements as to conditions of employment to be observed and minimum wage rates to be paid under the contract and to the materials and equipment to be furnished by the Town of Salina.

No bidder may withdraw his bid within 45 days after the actual date of the opening thereof.

TOWN BOARD, TOWN OF SALINA
By George L. Traister
Supervisor, Town of Salina, N. Y.
September 30, 1943.

Bids: October 15, 1943 (184)

Wells, Pumping Plants, etc.

FEDERAL WORKS AGENCY
WAR PUBLIC WORKS PROJECT
NO. NY-30-142

VILLAGE OF GREENPORT, NEW YORK

Separate sealed bids for wells, pumping plants and delivery lines, in the district known as East Marion located northeast of the Village of Greenport, and including well casings, screens, buildings, pumps, engines, pipe, fittings, etc., will be received by the Village Clerk at the Village Office until 7 P.M. E.W.T. on October 15th, 1943, and then at said office will be publicly opened and read aloud.

The information for Bidders, Form of Bid, Form of Contract, Plans, Specifications, and Forms of Bid Bond and Performance Bond may be examined at said office and copies thereof obtained upon payment of $10.00 for each set. Any bidder, upon returning such set promptly and in good condition, will be refunded his payment, and any non-bidder upon so returning such a set will be refunded $7.50. These Plans, Specifications and Documents may also be examined and secured at the office of Barker & Wheeler, Engineers, Room 1916, 11 Park Place, New York, N. Y.

The Village of Greenport, N. Y. reserves the right to waive any informalities in or to reject any or all bids.

Each bidder must deposit with his bid security in the amount of $1,000.00 in the form and subject to the conditions provided in the Information for Bidders.

Attention of bidders is particularly called to the requirements as to conditions of employment to be observed and minimum wage rates to be paid under the contract.

No bidder may withdraw his bid within 30 days after the actual date of the opening thereof.

JOHN KLUGE, Mayor
Greenport, N. Y.
September 28th, 1943

Official Proposals Columns of
ENGINEERING NEWS-RECORD
are MUST reading, each week, for contractors, engineering-construction companies, equipment and materials manufacturers, all over the United States,
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Official Proposal Division
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New York City

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CIVIL SERVICE

APPLICATIONS for positions in the West Virginia State Health Department as Junior Engineer, Jr. Bacteriologist, Jr. Serologist, Sanitarian, Technical Laboratory Asst. and other related employment are invited by the Merit System Council, 212 Atlas Bldg., Charleston, W. Va. Details on request.

POSITIONS VACANT

These Positions Vacant advertisements are published subject to agreement by the advertisers not to consider applicants now employed on war work unless they obtain written release from present employer.

MECHANICAL ENGINEER WANTED, qualified either by experience, education; or, preferably both, to bring to completion a patented design of harvesting attachment for a mowing machine. A full working model has been built and is now being field-tested. We want a man who can prepare the necessary production drawings and later, supervise, from an engineering standpoint, the building of the machines; as well as assist in problems connected with the marketing of same. Statement of availability will be required. Give full particulars, including salary wanted and references. Apply post office box 359, Johnson City, Tennessee.

POSITION AVAILABLE with a manufacturer of pumps for the Construction Industry, located in the mid-west. Headed by young aggressive management, this company is laying plans now for post war activity in the construction field. The man for this key job should have contractor's experience and possess full knowledge of all equipment used in road construction work. Technical training not required, but desirable. He will work closely with both engineering and sales. Excellent opportunity to advance with a company that is moving forward. Applicants must be prepared to furnish certificate of release from present employer. Write giving full particulars. P-898, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

HYDRAULIC ENGINEER to act as assistant engineer on storm drainage and flood control investigation. Location near New York City. Applicants must have thorough knowledge interpretation rainfall and runoff data, design sewers, storm drains and other drainage facilities. Salary range $4,000 to $5,000 per annum. Give detailed experience, reference and expected salary. P-902, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ENGINEER, thoroughly experienced in design of towers for Radio, Transmission Lines, etc. Please give age, education, experience, salary expected, references and draft status. Plant situated in Central Ohio. P-905, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

POSITIONS WANTED

SUPERINTENDENT CONSTRUCTION, 32 years experience varied extensive projects Engineer and expert co-ordinator. PW-846, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

GRADUATE CIVIL ENGINEER, twelve years general experience investigation, design and construction water supply and conservation works; fiscal reports, etc. Speak Spanish. Licensed in California. Employment location not material. PW-845, Engineering News-Record, 68 Post Street, San Francisco 4, Calif.

STRUCTURAL - MECHANICAL engineer, 20 years experience, registered New York State. Design, construction, maintenance, sales, Structures, mechanical handling, equipment. PW-847, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

GENERAL CONSTRUCTION FOREMAN, 25 years experience all kinds excavations. Grading, sewers, water lines, foundations and concrete. PW-856, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ASSISTANT PROJECT MANAGER or General Superintendent, open after Sept. 21st. 25 years experience. PW-864, Engineering News-Record, 520 N. Michigan Ave., Chicago, 11, Ill.

POSITIONS WANTED

ENGINEER-EXECUTIVE — Age 50, College Graduate, 30 years experience as general superintendent and project manager on large building construction projects. Now employed, but desires new connection. Location immaterial. Salary $7500. PW-858, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ESTIMATOR—25 years experience in carpentry, brickmasonry and reinforced concrete for industrial, residential and current war construction. PW-859, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

ESTIMATOR & TAKEOFF, experienced in various types of large Structures, Registered Architect. Age 47. Salary $500.00 per month, available after Sept. 22nd. PW-863, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CONSTRUCTION SUPERINTENDENT: Age 39. Twenty years general construction experience including dams, hydro-electric plants, paving, docks, piers, buildings, shipways and floating drydocks. Available immediately. Will go anywhere, but have preference for middle-west in vicinity of Great Lakes. PW-866, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

ELECTRICAL CONTRACTOR'S SUPERINTENDENT. Best references from largest electrical, and supervising construction of heavy wood pole and steel tower line construction and distribution systems both for Army and private power companies. Draft status 3A will consider permanent connection only eastern territory preferred. Have good following key men. PW-872, Engineering News-Record, 68 Post Street, San Francisco 4, Cal.

BUILDING ESTIMATOR and purchasing Agent. 25 years experience. Thoroughly understands estimating, subletting, purchasing, and office coordination. Just completed an eleven months assignment on large rubber Mfg. plant. Salary open. PW-873, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER Construction Project Manager 25 years experience U. S. and foreign countries. Available now. PW-883, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

EXPERIENCED ESTIMATOR, Licensed Engineer, thoroughly familiar Contractors problems. 20 years with General Contractors buying, bidding, Field Supervision, client contracts on buildings, bridges, government projects. Also familiar legal and accounting matters. Desire position project Manager or Contractors Assistant. PW-884, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

CONSTRUCTION AND DESIGNING ENGINEER. Can take charge design and plans, detail plans, reinforcing steel fabrication and placing or construction supervision. PW-886, Engineering News-Record, 320 W. 42nd St., New York 18, N. Y.

CONSTRUCTION SUPERINTENDENT or Assistant to project manager over 25 years experience all types Building Construction. Well recommended, excellent record. Lately on large scale Housing Projects. Now available. Will leave town, good executive. PW-897, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

CIVIL ENGINEER graduate; 34 years experience; design and construction; water supply; industrial plants; power plants; hydro-electric developments. PW-899, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

ACCOUNTANT, OFFICE MANAGER, pay roll supervision, full general knowledge construction accounting and costs, methods and problems. Salary high, ability excellent, location immaterial, age 50, prime physical condition. Available October 4th. C. C. Hyatt, 110 Wakefield Ave., Yonkers, N. Y. Phone Beverley 7-6094.

EXECUTIVE ACCOUNTANT, competent in all phases of accounting, cost finding and analysis, tax procedure, etc. Able to assume full responsibility. Long experience in engineering construction as general office manager. Address Post Office Box 212, West Palm Beach, Florida.

POSITIONS WANTED

ESTIMATOR AND CONSTRUCTION SUPERINTENDENT with a background of 25 years experience in all sizes and types of building construction. Capable of taking charge of office, purchasing, sub-contracts, costs, etc. Age 50 years, married. Desires permanent position with substantial contracting firm, preferably in southern California. PW-903, Engineering News-Record, 68 Post Street, San Francisco 4, Cal.

CONSTRUCTION SUPERINTENDENT — years experience on building construction. Just returned from Newfoundland. Will go any place. PW-904, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

RAILROAD MAINTENANCE and Construction Engineer available. Thirty years experience, age fifty-five. Have served as Maintenance Inspector, Road Master, Division Engineer. Would consider position representing Railroad Equipment manufacturer. PW-901, Engineering News-Record, 520 N. Michigan Ave., Chicago 11, Ill.

GENERAL CONSTRUCTION SUPERINTENDENT—Project Manager. American Married, 41 years of age. AUS draft status. Available October 15th. Excellent record of economical and diplomatic coordination and supervision. One and two million dollar contracts. All types heavy construction including Defense Plant and Federal Public Housing. 20 years of construction and engineering experience. Salary required, $125.00 per week. Have available competent Field Organization. Best reliable references. Reply PW-907, Engineering News-Record, 330 W. 42nd St., New York 18, N. Y.

FIELD OFFICE MANAGER—Accounts, costs, payrolls, personnel. Draft exempt, will travel anywhere. Address P. O. Box 1, Midland, Mich.

WORK WANTED

EQUIPPED SURVEY PARTIES for all types of surveyor construction work. Any location. Harwood, 258 Broadway, New York City.

To Employers Who Advertise for Men:

The letters you receive in answer to your advertisements are submitted by each of the applicants with the hope of securing the position offered.

When there are many applicants it frequently happens that the only letters acknowledged are those of promising candidates. Others do not receive the slightest indication that their letters have even been received, much less given any consideration. These men often become discouraged, will not respond to future advertisements and sometimes even question if they are bona fide.

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